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Annual Report 1949-1950

University of Rhode Island

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Addenda:

While this volume was in press, the name of Rhode Island State College was changed to University of Rhode Island, by unanimous vote of the General Assembly. The act became effective with the signature of Governor Roberts on March 23, 1951.

Accordingly, this is the last Annual Report of the institution under the name Rhode Island State College. Since the college already had the organization of a university, the change in name will not involve any major change in educational program. As a university, the institution will continue to develop the services here described in its endeavor to advance the cultural, social, and economic welfare of state and nation

Carl R. Woodward, President

(Supplement to R. I. State College Bulletin, Vol. XLVII, no. 1.)

BULLETIN OF RHODE ISLAND STATE COLLEGE

VOL. XLVII, No. 1

REPORT

of the

President and Other Officers

1949-1950



JANUARY, 1951

KINGSTON, RHODE ISLAND

Entered at the Post Office at Kingston, R. I., as second-class matter, under Act of Congress, July 16, 1894.

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December 6, 1950

My dear Governor Pastore:

On behalf of the Board of Trustees of State Colleges, I take pleasure in submitting herewith the Annual Report of the President and Other Officers of Rhode Island State College for the year July 1, 1949, to June 30, 1950.

Sincerely yours,

A. LIVINGSTON KELLEY, Chairman

Board of Trustees of State Colleges

THE HONORABLE JOHN O. PASTORE
Governor of the State of Rhode Island
State House
Providence, Rhode Island

Report of the President

To the Board of Trustees of State Colleges:

THE report of Rhode Island State College for the year 1949-50—the fifty-eighth year in the life of the college and my ninth as president—is a report of gratifying progress* In the strengthening and development of our academic program, in the integration of our educational services into the life of the state, in caliber of faculty and quality of performance, in the building of public confidence, and in improvement of physical facilities, much has been accomplished. Much more still remains to be done.

ENROLLMENT

The first semester resident enrollment during the past year was somewhat lower than the postwar peak reached in 1948-49, viz., 2497 as compared with 2593 the previous year. Three features of the enrollment were noteworthy: in comparison with the previous year, the number of World War II veterans declined from 1205 to 889; the number of graduate students rose from 55 to 92; and the graduating class of June, 1950, was the largest in the history of the College. At the commencement on June 12, Bachelor's degrees were conferred upon 645 students, and 10 Master's degrees were awarded. In addition four honorary degrees were conferred.

ADMISSIONS

With the falling off in the number of veterans, some decline in the number of applications for admission was expected. Preparations were made for an entering class of 650, as in the previous year. Altogether, the Director of Admissions received 4368 inquiries and a total of 1294 applications were completed. Selections from these resulted in the registration of 669 freshmen, as compared with 671 in September, 1948. A further reduction in the enrollment of veterans may be anticipated in the years ahead.

Prior to the outbreak of the Korean War, it was anticipated that the College enrollment would level off at a figure somewhere between 2000 and 2200 until 1955-1960, when another upward trend could be expected from the crop of war babies which

*In the main, this is a report of the fiscal year July 1, 1949, to June 30, 1950. However, to bring it more nearly up to date, reference is made in places to developments subsequent to July first up to the time of writing.

will then reach college age. However, the national emergency has introduced new elements which will doubtless affect college enrollments. Whether it be adversely or favorably will depend upon government policy, with respect to a continuation of selective service, or the adoption of universal service, together with such questions as the deferment of students preparing for critical occupations, expansion of ROTC, special training programs, and other conditions. Pending a declaration of policy by the government, we can do no better than retain the above-mentioned objective based upon the trends of recent years.

FACULTY

The changes which occurred in the faculty and other staff are listed in detail on pages 84-88. The normal turnover in the lower ranks provides a steady flow of fresh young talent among graduate assistants, instructors and assistant professors, many of whom bring to our campus experience gained at other institutions. After one or more years of apprenticeship, they may be selected for permanent appointment under tenure. Others, after a year or more on our campus, find it desirable to broaden their experience by seeking employment elsewhere. This is accepted as a sound method of building up a strong faculty. In the upper academic ranks there have been fewer changes than occurred during the war years, reflecting a return to greater economic and academic stability.

Losses to the faculty during the year were suffered from death and from retirement. In November, 1949, Miss Mabel Dickson, professor of business administration, died after several months' illness. Professor Dickson, who came to Kingston in 1929, was a loyal and faithful servant of the College and made many friends among the succeeding classes of students. Her place as head of the department of industrial management was filled by the appointment of Dr. Carl W. Kaiser, Jr., who came to us from the University of Pittsburgh.

The retirement of Prof. Joseph W. Ince on June 30 also focuses attention upon a noteworthy career in the building of the fortunes and the academic services of the college. Coming to Kingston in 1919, Professor Ince has given us more than 3 decades of devoted service. His qualities as a teacher of undergraduates, his personal integrity, his kindly and understanding

interest in young people, his unswerving devotion to an ideal, won the admiration of students and faculty colleagues alike. In appreciation of his contributions to the college, the Board of Trustees designated him Professor Emeritus. Happily he and Mrs. Ince remain members of the College community, and we shall continue to benefit from his counsel and his spiritual guidance. In the new chemistry building, which will stand for years to come as a reminder of his leadership and diligent labors, a room for his exclusive use is being reserved. Dr. W. George Parks was named head of the department of chemistry to succeed Professor Ince.

The resignation of Prof. Wm. M. H. Beck as football coach created a vacancy which was filled by the appointment March 1, 1950, of Prof. Harold W. Kopp. Coach Kopp undertook his new duties with characteristic vigor and enthusiasm, which quickly revived campus interest in football and augured well for a new era in Rhode Island's football fortunes.

Marriage, also, took its toll from our faculty ranks. At the close of the college year Prof. Lillian B. Hudon, since 1943 Director of Dining Services, and Prof. Nancy Carpenter French, head of the department of physical education for women since 1948, resigned their positions and soon thereafter were married. Prof. Emma M. Kimball succeeded Professor Hudon, and Prof. Dorothy M. Massey was made acting department head in place of Professor French.

The retirement also of Mrs. Bernice M. Russell, assistant to the Dean of Women and Davis Hall House Director, became effective on June 30.

Indicative of the academic progress of the College, five members of the faculty took advantage of the provision for sabbatical leave during the past year: Prof. Grace Burwash (first semester), Mr. Chester Berry (full year); Prof. Robert DeWolf (second semester), Prof. Edith Andrews (second semester), and Dr. Frank L. Howard (second semester).

STUDENT LIFE

Improved living quarters, more scholarship and work aid, and better athletic prospects have resulted in a distinct upswing in student morale and in student-college relations. This has been evidenced in a considerable decrease in disciplinary and

adjustment problems, and more frequent counselling with the Dean of Men and the Dean of Women. The number of cases of academic dishonesty and of suspension fell to less than a third of those in the previous year.

Extracurricular activities constitute an important part of a broad college education. During the year over 60 organizations were active on the campus. It is the function of the Dean of Men, the Dean of Women and the Director of Student Activities to give general oversight and direction to these organizations, to help keep their programs in balance and shaped along creative lines. Frequently it becomes necessary to caution individual students against devoting too much time to a variety of activities at the expense of their studies. It is felt that limitation of extracurricular activities is best accomplished by personal guidance in individual cases rather than by rigid rules.

Two measures to safeguard the health of the students deserve mention: chest X-rays, and physical examinations for all food handlers in fraternities and in the College dining halls. The latter were given a perfect health score.

ALUMNI RELATIONS

Once more I have reason to thank our alumni for their constant interest in the College, and their cooperation in promoting its best interests. New alumni clubs were formed in Worcester, Springfield, Mass., Schenectady and Syracuse. The clubs in Boston and Westerly were reorganized and launched upon an active program. Pre-commencement Alumni Day on June 10 brought out a record attendance. The Alumni Association sponsored the making and distribution of a record of college songs. The Alumni Fund organization raised \$12,207.40, of which \$7,720.90 was unrestricted. A noteworthy service was performed by a group of alumni who cooperated with the College administration in dealing with athletic problems. We are particularly indebted to Mr. R. A. DeBucci, of the class of 1927, who served as chairman of an advisory committee representing alumni, faculty and undergraduates, on the selection of a football coach.

The services of Mr. Clark F. Murdough, '32, as alumni trustee likewise are gratefully acknowledged. The Athletic Council, too, has had an especially active year, and has given

invaluable aid in shaping our athletic program. On June 30, the 3-year term of Mr. A. C. Barton, '22, as alumni representative on the Council, came to a close. Illness kept him from the last meeting of his term, and marred an otherwise perfect 3-year record of attendance. His diligence has merited our deep appreciation.

PLACEMENT

Our placement service is designed to bridge the gap between the college and the scene of the graduate's career. It serves as a liaison agency to interpret the opportunities and demands of business, industry, agriculture and the professional world to the undergraduate, and to introduce the undergraduate to prospective employers.

During the year, representatives of 46 companies visited the campus and held 837 interviews with prospective graduates. It is estimated that of the students who registered with the service, 54 per cent were placed.

In the manpower shortage created by the national emergency, we anticipate increased demands upon our placement service, and its functions will assume new importance in bringing together the candidate and the work he is best fitted to perform in the interest of the national welfare.

MEETINGS ON THE CAMPUS

The requests of various groups to hold meetings on the campus continue to grow. So numerous have they become, it is impossible to accommodate them all without infringing upon the college's academic program. However, since the college belongs to the people of Rhode Island, and is maintained to serve them, we feel an obligation to open our doors to Rhode Island groups so far as it is possible to do so. We want Rhode Island people always to feel that they are welcome on our campus.

The meetings held at the college during the year 1949-50 include the following:

1949

June 25-July 2 . . .	Annual 4-H Club Camp
July 21	Meeting of Providence Chamber of Commerce
August 3-4	Second Annual Institute for Good Government
August 11	R. I. Fruit Growers Association—Field Day
August 12	R. I. Potato Growers—Field Day
August 15-18	New England Grange Lecturers Conference

August 18	R. I. Vegetable Growers—Field Day
August 28	Meeting of R. I. Beekeepers Association
August 31-September 1	Meeting of R. I. School Superintendents
September 7-9	19th Annual Greenkeepers Conference
September 9	Annual Lawn and Garden Field Day
September 8-9	R. I. Congregational Women's Conference
October 12	R. I. Poultry Producers Association
October 12	Life Insurance Sales Conference

1950

March 4	R. I. High School Model Congress
March 17-18	All-College Model Congress
March 28	Town of South Kingstown Annual Financial Meeting
April 6-7	New England Electrification Institute
April 29	American Institute of Chemical Engineers—New England Regional Student Chapter Convention
May 2	R. I. Council for Exceptional Children
May 3	Meetings of R. I. English Teachers Association
May 6	Spring Meeting of R. I. Home Economics Association
May 9	Meeting of State Music Educators
May 12	Yankee Conference
May 13	New England Association Nursing Education
May 23	Providence Section of American Chemical Engineers
May 31	Meeting of R. I. School Superintendents Association
June 13-15	Southern New England Chapter of Soil Conservation Society and Society of American Foresters
June 15-16	Northeastern Forest Fire Conference
June 19-22	Rural Womens Short Course
June 24-25	4-H Club Leaders Conference
June 25-30	Annual 4-H Club Camp
June 27-29	R. I. Baptist Women's Spring Assembly

SUMMER SESSION

The Summer Session of 1950 showed some decline in numbers over the previous year, following the pattern of summer sessions generally. The enrollment was 703, including students representing 42 other institutions and 13 states. The Music Camp and the Art Workshop continued to be popular and valuable features of the enterprise. In addition, this year a Drama Workshop was introduced.

Associated with the Summer Session were three institutes—the two-day Institute on Problems of Government, now in its third year, the Second Annual Institute of Steel Workers, CIO, and the Insurance Institute, a five-weeks course of instruction for insurance workers, offered for the first time this year. This type of educational activity fits admirably into the objectives of the Summer Session, and represents a valuable service to the economy of the state.

RESEARCH

By far the largest branch of research in the college is the Agricultural Experiment Station, supported jointly by federal and state funds. This station, in fact, antedates the college, and has a history of continuous service to the state of more than sixty years, a service which has contributed abundantly to the health and the wealth of state and nation. Its achievements of the past year, described in detail in the separate report of the station, are in keeping with its high tradition of service. Noteworthy among its most recent contributions to science are its studies in Dutch Elm disease control, poultry pathology, weed control, and turf management.

The Engineering Experiment Station has brought to a conclusion its study of the industrial uses of Rhode Island coal, successfully demonstrating that this natural resource of our state can be used as a source of mineral wool for insulating purposes. The department of sanitary engineering, aided by a federal grant, is investigating the pollution of streams by wastes from textile plants, a study of great importance to the welfare of the state.

There are many other aspects of our research program, but I shall mention only two. The department of physics, in its research conducted for the Air Materiel Command on the phenomena of the upper atmosphere by means of rocket recording, met with such a degree of success that the two-year contract has been renewed. Although the initial results remain to be verified, at this stage it appears they may be a very significant contribution to science.

The Narragansett Marine Biological Laboratory has been established in year-round quarters in the old stone officers' building at Fort Kearney. The house has been rehabilitated and important research in cooperation with the Navy is now under way. It is gratifying that by act of Congress the site of the house near the waterfront has been made available for purchase by the State of Rhode Island for the use of the Laboratory.

The importance of our research to the economy of Rhode Island cannot be overemphasized. Science and industry are partners in economic progress. The great industrial developments of the past century have been due in large measure to an ever-growing series of discoveries in the field of science.

Newly revealed facts from our scientific laboratories have revolutionized transportation, communication, medicine, commerce, industry and world relations.

New developments in industry have provided new outlets for the scientist and increased demands for his services. Vice versa, the startling facts of science uncovered by test tube and microscope have opened up whole new fields of industrial production, providing employment for millions of people and yielding billions of dollars.

GIFTS

As the college and the character of its work become better known, it is only natural that it should attract the interest of prospective donors in various phases of its activity. Among the gifts received during the past year, I am happy to report approximately \$17,000 from individuals and industrial concerns for research, \$12,207 contributed through the Alumni Fund, and \$1,850 from the Sears Roebuck Foundation, the Hood Foundation, and other sources for scholarships and special student aid. Mr. Harry Knowles, of the class of 1899, who in 1948 donated a site on Salt Pond for a boathouse, last year made a special gift of \$500, to be called "The Class of 1899 Student Loan Fund," for the assistance of needy and worthy students. A number of gifts of books have been made to the Library. A noteworthy gift of a small portable planetarium, together with \$1000 for the erection of a building to house it, was received from an anonymous donor. This building, erected near Roosevelt Hall, adds a valuable asset to our educational equipment. We also received word of a substantial sum designated for the college in the will of a friend, who for the time will remain anonymous.

FINANCIAL REPORT

The total expenditures of the year 1949-50 amounted to \$2,802,288, very nearly the same as in the previous year—\$2,803,077. Again, the year was finished without a deficit. In view of the shrinkage of income from the Veterans Administration, together with rising costs of operation, we regard this as a creditable achievement.

The expenditures for educational and general purposes in 1949-50, including the Agricultural Experiment Station and

Extension Services, but exclusive of Dining Services, were \$2,-387,710, as compared with \$2,406,484 for the year 1948-49. The income was from the following sources:

Student fees (including room rentals)		
paid by Veterans Administration.....	\$328,933	14%
paid by students.....	514,851	21%
	<hr/>	<hr/>
Total Student Fees.....	\$843,784	35%
State appropriation for maintenance and operation	\$1,001,900	42%
Sales and miscellaneous.....	250,585	11%
Federal appropriations	288,699	12%
	<hr/>	<hr/>
Total	\$2,384,968	100%
Other income:		
Dining services	\$439,199	
Prior year balances, reappropriated and/or reincumbered	162,226	
	<hr/>	
Total	\$2,986,393	

On the basis of total disbursements, the state appropriation represented 35.8 per cent of the year's budget.

On the basis of disbursements by function, exclusive of dining services, the expenditures were distributed as follows:

Resident instruction	43.6	per cent
Research	9.9	" "
Extension	7.4	" "
Agricultural	4.9	
General College	2.5	
Administration	8.4	" "
Library	2.2	" "
All other	28.5	" "
	<hr/>	
	100.0	" "

On the basis of disbursements by object, the distribution of expenditures was as follows:

Salaries	74.1	per cent
New equipment and buildings.....	3.9	" "
Other current expenses	22.0	" "
	<hr/>	
	100.0	" "

Further financial details, including the college balance sheet and a summary of income and expenditures for the year, are presented in the report of the Controller and Treasurer at the close of this volume.

FACULTY SALARIES

The budget for the year enabled us to make substantial progress toward putting fully into effect the salary schedule

adopted in 1948. The new salary schedule, when adopted, provided that the salaries of faculty members which were well below the minimum for their rank, should be moved up by stages. Only a few salaries remained below minimum during the past year, most of which were subsequently brought to this level under the budget adopted for 1950-51.

The salary trend has been steadily upward since 1941. The average faculty salary for 1949-50 was approximately 50 per cent higher than the average for 1941-42. However, the typical faculty member is less well off financially today than he was 10 years ago. For while his salary has risen 50 per cent, the cost of living has risen still more rapidly, being variously estimated at 60 to 70 per cent above the 1941 level. Hence, if the college is to attract and hold the ablest scholars and scientists, it must continue to adjust its salary schedule upward. With the further trend toward inflation attending the Korean War and the resulting competition for manpower, the need for bringing faculty salaries in line with the income from other professions is increasingly acute.

COST PER STUDENT

As was predicted in last year's Annual Report, salary increases and rising costs of supplies and equipment, coupled with a shrinkage in enrollment, have resulted in an increase in the operational cost per student. The cost per student for the year 1949-50 was \$608, as compared with \$562 in 1948-49. This is still lower than the cost in 1945-46, when with an enrollment less than half that of last year, the per student cost was \$719.

FRATERNITY TAXATION

For many years the fraternity houses on the campus, erected on tracts of state-owned land made available by the governing board of the college, have been exempt from taxation. Two years ago the Town of South Kingstown levied taxes on fraternity and sorority houses hitherto considered exempt.

The matter was taken up with the Attorney General of the state, who rendered the opinion that the houses were not taxable under the law. However, the Town of South Kingstown invoked the courts, and the matter is now awaiting a judicial

decision. The cooperation of the Attorney General in dealing with the matter is gratefully acknowledged.

BUILDING PROGRAM

During the year the first stage of the postwar building program began to come to fruition. The two men's dormitories, begun in December, 1948, were completed. The first was occupied in November, 1949, and the second in February, 1950. Construction was finished in the fall of 1950, and the buildings were dedicated with appropriate formality on October 21, 1950. The buildings were named in memory of two former presidents of the college—Butterfield Hall, for Dr. Kenyon L. Butterfield, president from 1903 to 1906, and Bressler Hall, for Dr. Raymond W. Bressler, president from 1931 to 1940. The buildings were financed by a self-liquidating state bond issue, authorized by referendum vote at a special election in June, 1947. Each has a capacity of 200 students. With full occupancy, at the present rental rate (\$85.00 per semester), it is expected that the state will be reimbursed for the bond issue in approximately twenty years.

Ground was broken for the chemistry building July 22, 1949, and construction has gone forward throughout the year. It is expected to be ready for occupancy in the spring of 1951.

Because of circumstances beyond our control, extended delay was experienced in completing the plans for the gymnasium-armory, for which a bond issue of \$1,300,000 was authorized in the general election of November, 1948. In preparing plans, the architect, Mr. Oresto DiSaia, of Providence, designed a complete plant for physical education and military science, including a field house attached to the main gymnasium structure. Unfortunately the opening of bids was scheduled in July, 1950, soon after the outbreak of the Korean War. Because of the uncertainty of the period, the bidding lacked appropriate competition, and the bids were far in excess of available funds. Consequently the architect redesigned his plans, omitting the field house and simplifying the design of the gymnasium proper. Bids on the revised plans were opened November 1, 1950. Although the low bids totaled approximately \$1,500,000, which was substantially more than the bond issue, the state officials decided to award the contract with the expecta-

tion that the difference would be provided by the next General Assembly. The official ceremony of ground-breaking took place December 5, 1950.

Through the cooperation of Governor Pastore and the Department of Public Works, funds have been made available for the expansion of the utilities necessary for servicing the new buildings. The items completed or now under construction include: (a) a new boiler to supplement the three boilers in the central heating plant, with connections to new buildings; (b) enlargement of the sewage disposal plant, with connections to new buildings; (c) a new electric transformer station, with connecting lines; (d) a new road to the men's dormitory area.

The engineering services of Jenks and Ballou, Providence, have been engaged to determine future needs of heating and power, and to recommend the most efficient and economical methods of expansion. Likewise, the services of Hayden, Harding & Buchanan have been engaged for a study of sewage disposal. The Narragansett Electric Company has given its cooperation in dealing with power and lighting problems.

FUTURE BUILDING PROJECTS

While progress has been made in meeting building needs during the past three years, actually the buildings so far authorized are only those which were urgently needed prior to 1940, and we have made little or no progress in catching up with the accumulated needs of the 1940's. Our next effort should be concentrated on modernizing some of the older buildings and replacing most of the war surplus structures. These needs were outlined in last year's annual report (p. 21-22).

To meet the needs here outlined, the Trustees, in January, 1950, adopted a proposed schedule for the next five years. With adjustments for projects now in progress, the tentative schedule, with priorities as indicated, is essentially as follows:

- 1951—1. Remodeling of Old Buildings
 - a. Ranger Hall
- 2. Dormitories (self-liquidating)
 - a. One Women's Dormitory, 200 capacity, with dining hall
 - b. One Men's Dormitory, 200, with addition to Butterfield dining hall
- 3. Other New Buildings:
 - a. Agricultural Science Building
- 1952—1. Remodeling of Old Buildings
 - a. East Hall—for Physics Building
 - b. Davis Hall—for Administration Building
 - c. Rodman Hall—for Women's Gymnasium

- 1953—1. New Buildings
 - a. School of Business Administration Building
 - b. Addition to Engineering Building
 - c. Home Management, Duplex House
 - d. Child Development Center
- 2. Addition to Gymnasium—Field House
- 3. Remodeling of Washburn Hall—General Classroom Building
- 1954—1. Remodeling of Old Buildings
 - a. Green Hall—for Library
 - b. Lippitt Hall—Upper Floor—for Classrooms and Offices
 - c. Watson House—Restoration as Historical Center
 - d. Quinn Hall—Extension of Home Economics Laboratories
- 1955—1. New Buildings
 - a. General Classroom Building
 - b. Men's Dormitory, 200 capacity (self-liquidating)
 - c. Addition to Gymnasium—Swimming Pool

At current costs, it is estimated that the self-liquidating projects will involve an expenditure of approximately \$2,300,000, the non-self-liquidating projects, approximately \$5,840,000, or a total of \$8,140,000. The need for the projects listed for 1951 and 1952 is most urgent. It is hoped that general economic conditions will permit us to go forward with the program.

MEMORIAL UNION

The Student Union was planned during the war years as a memorial to our 97 Rhode Island State College men who gave their lives during war. It was felt that there could be no more appropriate tribute to these men than a living memorial such as the Union would be—a focal point of campus life, a college center which would daily contribute to the tone, the atmosphere, and the activities of future generations of students.

In order to establish our minimum needs, a College Committee headed by Professor Stockard, Treasurer of the Alumni Association, spent months in conference with students, the Director of Student Activities, and others planning our Union. Howe, Prout and Ekman, of Providence, were retained as architects. The plans include offices for the *Beacon* and the *Grist*, conference rooms for various student clubs and organizations, offices and rooms for the religious counsellors, social rooms, reading rooms, rooms for the enjoyment of music, offices for the Director of Student Activities, headquarters for the Alumni Office, meeting rooms for alumni, recreation rooms, snack bar and dining facilities, and an extremely important unit—the Senate Chamber. This last will be a modest replica of the United States Senate and will be used as a meeting place for the Stu-

dent Senate and the Women's Student Government Board. It will also provide the proper atmosphere and space for forums, debates and model congresses. With this Laboratory of Democracy as part of our campus, the State College will become, in a sense, custodian of Rhode Island's democratic tradition, and we shall have the means of perpetuating it.

Originally, it was estimated that the main unit of the building might be built for \$350,000, but with the growth of the institution and the increase of construction costs, it is now estimated \$555,000 will be required to provide for our basic needs. Toward this goal, a substantial sum has already been raised from an initial effort, but approximately \$427,000 still remains to be raised. To bring the project to a conclusion, the campaign was revived in 1950 and Mr. David Adams was engaged as Secretary of College Development to give it his full time. It is hoped to secure the necessary funds by the fall of 1951.

This campaign is of particular importance because it is the first time that our college has offered an opportunity to the residents of Rhode Island to indicate their support of their State College by helping us erect a vitally needed building. Since the Student Union is a building for extracurricular activities, it is not proposed to finance it by legislative appropriation, but, as at other state colleges and universities, to rely upon gifts from the members and friends of the college. The Memorial Union offers a challenge and an opportunity to the citizens of Rhode Island to show their recognition of what their College over the years has done for the state, and to assist it in strengthening its educational services through the years ahead.

"UNIVERSITY OF RHODE ISLAND"

In the reports of former years, I have from time to time referred to the proposal that the name of the college be changed to "University of Rhode Island". I have counselled against a premature change, believing that before accepting the name of university, we should be certain of having attained the substance. At the same time I pointed out that inevitably we were moving toward that goal.

In order to appraise our position in relation to university status, last spring I appointed a committee, with Dr. Harold

W. Browning as chairman, to study the matter, and to recommend appropriate action. So comprehensive and convincing was the committee's report, it is presented herewith in full:

A special committee of the faculty appointed by President Woodward has been studying the question of university status for several months and has reached the unanimous conclusion that Rhode Island State College is in fact a university and should become a university in name.

The committee recommends that the Board of Trustees give prompt consideration to the proposal of "university status" for Rhode Island State College with the objective of effecting the change in name by passage of proper legislation by General Assembly in the January Session of 1951.

The committee bases its recommendation on the results of its own extensive studies, the comments and advice of leading educational writers and administrators, the comments and interest of faculty, alumni, students, parents and friends of the college.

Some of the significant points considered by the committee are listed in summary form:

1. All the deficiencies of the college listed by a prior committee report on university status in 1938-1939 appear to have been met.
2. Rhode Island State College was chartered May 19, 1892, and while not the last of the land-grant colleges of New England to be established, it is the only one remaining which has not been granted university status.
3. Rhode Island State College has now the basic organization of a university in its five schools and its several divisions.
4. Its thirty-eight departments of study offering a total of 818 courses and forty-four different curricula or programs of study present a variety and quality of subjects and of scholarship worthy of the name of university.
5. The student body has approximately doubled in size every decade during the last fifty years to reach a total of 2,626 in the academic year 1949-1950.
6. It supports a Summer Session with several featured areas of study, which attracted 771 students from over sixty different colleges and universities in 1949.
7. It supports a General College Extension Program offering a variety of courses for credit and servicing many professional and technical groups. Its total registration in 1948-1949 was 3,007.
8. The college has a total staff of 462, including 229 faculty members.
9. Its faculty includes:
 - 59 with the bachelor's degree only,
 - 101 with master's degree—many with additional work towards the doctorate,
 - 69 with doctor's degree from 26 leading American and 2 foreign universities.
10. The faculty includes fifty members of the Society of the Sigma Xi, forty members of Phi Beta Kappa and extensive representation in other honorary, learned and professional societies.
11. The college offers baccalaureate degrees of Arts, Education and Science.
12. Graduate work is offered at the master's level only. Registration in 1949-50 included 129 graduate students from fifty different colleges and universities studying in 15 departments of the college.
13. Library facilities include a total of over 100,000 volumes. Our library in operating budget, volumes added annually, number of periodicals received and expenditures for books and periodicals compares favorably with the libraries of the other New England Land-Grant institution libraries.
14. With the regular research funds received under the various Acts of Congress, and with special grants from various government agencies, research foundations, and from industry, the college budget for research amounted to a grand total of over a quarter million dollars in 1949-50.
15. The total budget of the college alone in 1950-51 is \$2,207,199. The total budget including the Rhode Island Agricultural Experiment Station and the Extension Service is \$2,896,102.

16. The physical plant of the college has been increased during the last year by the construction of two very modern dormitories housing four hundred men. A new Chemistry building, costing over a million dollars, will be completed during the coming year. A new Gymnasium-Armory—to be erected at a cost of over a million and a quarter—will be started in the next few weeks.
17. The college sponsors and offers the use of its facilities for many conference groups—including state and national societies and professional organizations—not only during the summer months but also during the regular college year.

For these reasons, and others, the committee considers that Rhode Island State College in organization, in the scope and quality of its academic work, in its physical plant, and in its public support, is worthy of the name of university.

We believe that the change to university status would add to the prestige of Rhode Island State College generally. It would add still further to the appreciation of the State College by the people of Rhode Island, and thereby increase its opportunities to render greater service to the state and to the nation.

This report was submitted to the Board of Trustees July 12, 1950, and its recommendations were approved. The next step, therefore, is to present suitable legislation to the General Assembly. It is proposed that there be introduced in the 1951 Session of the General Assembly, a bill which will change the name of the institution from *Rhode Island State College* to *University of Rhode Island*.

THE COLLEGE AND THE NATIONAL EMERGENCY

The College year 1949-50, begun in a spirit of optimism and confidence, closed under a shadow which threatens the traditional American way of life. Again we found ourselves at war, facing an uncertain future. As we prepared to receive more than 2,000 young men and women in the fall, we were conscious of a sober trust and a tremendous challenge. There have been few times, if ever, in the world's history when the cause of human freedom upon which the whole structure of American Democracy has been built was in graver danger.

If freedom is lost, all our other achievements, all our other possessions, are as nothing. While we concern ourselves with problems of agriculture, engineering, chemistry, economics and other fields of specialized knowledge, unless we are conscious of the place of human freedom in our order of living, we shall have failed as teachers and leaders of youth.

OUR BASIC JOB

"What is the College going to do to aid in the war emergency?" and "What can each of us do in the way of preparation?" These are fair questions, and the citizens of our state are entitled to a fair answer.

First, we believe the College can best serve by continuing in its regular program until called upon by the government to change it or to extend it. Meanwhile, we should be studying our resources for possible wartime emergency use, and alerting ourselves to possible calls for special services. If total mobilization comes, we may be called upon to accelerate our efforts, and to introduce special training programs such as ASTP and ESMWT, as in the last war. But until that time comes, it is incumbent upon us to pursue our normal course. All present evidence indicates that the government wants us to continue our regular program, and will ask us to expand parts of it as needed. For example, already we have been asked to increase our quota of advanced ROTC students.

THE OFFICES OF PEACE AND WAR

At a time like this, it is well to re-examine the basic purpose of college education, particularly that of the land-grant colleges. In the Morrill Act of 1862, upon which this college was founded, preparation for both peacetime and wartime leadership was implied in the declaration of purpose to establish colleges "where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts . . . in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life." Note the scope of this broad objective: a combination of the liberal and the practical, of the scientific and the classical, of preparation for both military service and peacetime pursuits. It comes close to expressing the aims of Milton's famous definition of education: "I call a complete and generous education that which fits a man to perform justly, skillfully, and magnanimously all the offices, both private and public, of peace and war."

War today is a highly technical, complicated business. The spirit of the individual soldier must be matched with the professional skills of the leaders and the technical skills of the specialists who form a part of the whole elaborate system of defense. An educated citizenry is America's greatest potential. Our job is increasingly to build that potential — for the offices of peace and of war.

It is reassuring to know, in these turbulent days, that the regular program of studies at Rhode Island State College is geared to these objectives, and that it is aimed to prepare young men and women to perform creditably the various offices of both peace and war.

During the past decade we have heard a great deal about the need for liberal education. I have always been in sympathy with this point of view. I think of a liberal education, however, not as in conflict with a technical education, but as supplementing it. All too often our land-grant institutions in the past may have been guilty of over-emphasis upon the material, the technical, the utilitarian, and have not stressed sufficiently the cultural, the liberal, and the spiritual values of life. But on this campus, our educational philosophy calls for a nice balance between the two groups of values. In recent years, particularly, we have experienced a growing interest in liberal studies. This has been done without any sacrifice of the quality of our technical instruction. And I believe we can emphasize the liberal studies even more without lessening the effectiveness of technical education.

In the world crisis which engulfs us, there is need to re-examine our educational programs and see whether we are preparing our young men and women adequately to meet the demands of the times. We must ask ourselves seriously and objectively whether we are producing good Americans and good world citizens. Such a need, in fact, has been accentuated by the developments of technology. It is the technical progress our colleges and universities have stimulated in the past generation which has brought about a wholly new type of world citizenship in our present day.

With the threat of a third world war and dropping of atomic bombs on American cities more than a possibility, we have a grave responsibility to guide the thinking of our young people on world issues.

There is need to introduce in our college program some element of instruction or educational experience which will aid our students in grasping the full significance of the present world crisis, stimulate them to think straight, help them in

reaching sound decisions, strengthen their basic faith in human rights, encourage understanding and sympathy for other peoples, give them an appreciation of the role of the United Nations and its potentialities as an instrument for establishing a peaceful order, help them to see and to love the truth and aid them in acquiring a sound philosophy to meet the exigencies of life in the atomic age.

I believe we have an obligation to lay these issues before our students so that they may understand them and be better able to play their role as American citizens and as citizens of the world. If we can accomplish this, then I believe that we shall have made a distinctive contribution to the cause of democracy in its struggle with communism.

CARL R. WOODWARD, *President*

Report of the Registrar

THE total enrollment for the two semesters of the academic year 1949-50, excluding duplicates, was as follows:

	Men	Women	Total
Graduate Students	90	39	129
Undergraduate Students	1864	594	2458
Special Registrants	8	31	39
Total	1962	664	2626

TABLE 1—Enrollment of students as of October 1 for the years 1945-49 inclusive.

Class	1945	1946	1947	1948	1949
Graduate	3	27	40	55	92
Senior	54	146	286	480	623
Junior	89	282	440	657	493
Sophomore	208	660	898	617	558
Freshman	484	1068	808	733	671
Irregular*	17	32	26	51	60
Total	855	2215	2498	2593	2497

*Includes 9th semester students who are candidates for a second Bachelor's Degree, unclassified students, and special registrants.

**TABLE 2—The distribution of students by sex for each semester
of the year 1949-50.**

September 12, 1949, to January 31, 1950

	Senior		Junior		Sophomore		Freshman		Total		
	M	W	M	W	M	W	M	W	M	W	Total
SCHOOL OF AGRICULTURE											
Agricultural Chemistry	4	0	0	0	0	0	0	0	4	0	4
Agricultural Economics	3	0	4	0	0	0	0	0	7	0	7
Agricultural Teacher Training	1	0	0	0	0	0	0	0	1	0	1
Agronomy	8	0	4	0	0	0	0	0	12	0	12
Animal Husbandry	10	0	13	0	0	0	0	0	23	0	23
Forestry	0	0	2	0	0	0	0	0	2	0	2
General Agriculture	3	0	5	0	0	0	0	0	8	0	8
Horticulture	11	0	7	1	0	0	0	0	18	1	19
Poultry Husbandry	4	0	3	0	0	0	0	0	7	0	7
Unclassified	0	0	0	0	53	0	64	2	117	2	119
Total Agriculture	44	0	38	1	53	0	64	2	199	3	202
SCHOOL OF ARTS AND SCIENCES											
Biological Laboratory Tech.....	0	1	0	5	0	6	0	9	0	21	21
Biology	3	6	10	4	26	8	39	6	78	24	102
Botany	1	2	0	0	0	0	0	1	1	3	4
Chemistry	13	2	9	0	17	1	15	2	54	5	59
General Teacher Education	6	8	10	15	6	12	7	15	29	50	79
Liberal Studies	32	30	26	17	30	24	43	45	131	116	247
Mathematics	0	4	0	3	0	2	0	0	0	9	9
Pre-Medicine	12	0	16	2	0	0	0	0	28	2	30
Physical Education	16	0	12	0	16	0	30	0	74	0	74
Zoology	1	1	0	0	0	0	0	0	1	1	2
Total Arts and Sciences.....	84	54	83	46	95	53	134	78	396	231	627
SCHOOL OF BUSINESS ADMINISTRATION											
Accounting	52	2	32	3	24	1	0	0	108	6	114
General Business Administration	37	3	22	1	28	0	0	0	87	4	91
Industrial Management	21	0	21	0	12	0	0	0	54	0	54
Insurance	1	0	5	0	9	0	0	0	15	0	15
Marketing and Advertising.....	66	1	51	4	54	5	0	0	171	10	181
Secretarial Studies	0	7	0	5	0	6	0	0	0	18	18
Unclassified	0	0	0	0	0	0	123	25	123	25	148
Total Business Administration.....	177	13	131	13	127	12	123	25	558	63	621
SCHOOL OF ENGINEERING											
Chemical Engineering	12	0	13	0	20	0	0	0	45	0	45
Civil Engineering	38	0	26	0	28	0	0	0	92	0	92
Electrical Engineering	50	0	36	0	21	0	0	0	107	0	107
Engineering Mathematics	0	0	0	0	1	0	0	0	1	0	1
Industrial Engineering	21	0	15	0	12	0	0	0	48	0	48
Mechanical Engineering	68	0	49	1	42	1	0	0	159	2	161
Aeronautics Option	6	0	4	0	9	0	0	0	19	0	19
Physics	7	0	5	0	6	0	0	0	18	0	18
Unclassified	0	0	0	0	0	0	147	0	147	0	147
Total Engineering	202	0	148	1	139	1	147	0	636	2	638
SCHOOL OF HOME ECONOMICS											
Child Development	0	14	0	8	0	0	0	0	0	22	22
Foods and Nutrition.....	0	11	0	10	0	0	0	0	0	21	21
Home Economics General.....	0	1	0	1	0	0	0	0	0	2	2
Teacher Training	0	5	0	3	0	0	0	0	0	8	8
Textile and Clothing.....	0	17	0	9	0	0	0	0	0	26	26
Unclassified	0	0	0	0	0	67	0	83	0	150	150
Total Home Economics.....	0	48	0	31	0	67	0	83	0	229	229
NURSING	0	1	0	1	0	11	0	15	0	28	28
UNCLASSIFIED									17	9	26
Undergraduate Totals	507	116	400	93	414	144	468	203	1806	565	2371
Special Students									7	23	30
Ninth Semester Teacher Training.....									4	0	4
Graduate Students									66	26	92
GRAND TOTAL									1883	614	2497

TABLE 2—Continued
February 6, 1950, to June 12, 1950

	Senior		Junior		Sophomore		Freshman		Total		
	M	W	M	W	M	W	M	W	M	W	Total
SCHOOL OF AGRICULTURE											
Agricultural Chemistry	3	0	0	0	2	0	0	0	5	0	5
Agricultural Economics	1	0	4	0	0	0	0	0	5	0	5
Agricultural Teacher Training	3	0	0	0	0	0	0	0	3	0	3
Agronomy	5	0	3	0	0	0	0	0	8	0	8
Animal Husbandry	8	0	12	0	1	0	0	0	21	0	21
Forestry	0	0	2	0	0	0	0	0	2	0	2
General Agriculture	2	0	3	0	1	0	0	0	6	0	6
Horticulture	10	1	7	0	0	0	0	0	17	1	18
Poultry Husbandry	3	0	4	0	1	0	0	0	8	0	8
Unclassified	0	0	3	0	41	0	53	2	97	2	99
Total Agriculture	35	1	38	0	46	0	53	2	172	3	175
SCHOOL OF ARTS AND SCIENCES											
Bacteriology	0	0	2	0	0	0	0	0	2	0	2
Biological Laboratory Tech.....	0	1	0	5	0	5	0	8	0	19	19
Biology	3	6	11	2	17	5	31	7	62	20	82
Botany	1	1	1	1	0	0	0	0	2	2	4
Chemistry	12	2	7	0	11	1	14	2	44	5	49
General Teacher Education.....	7	12	10	12	5	14	9	12	31	50	81
Liberal Studies	28	27	27	15	32	23	37	50	124	115	239
Mathematics	0	4	0	3	0	1	0	0	0	8	8
Pre-Medicine	13	0	11	2	0	0	0	0	24	2	26
Physical Education	15	0	12	0	18	0	20	0	65	0	65
Zoology	0	2	1	0	0	0	0	0	1	2	3
Total Art and Sciences.....	79	55	82	40	83	49	111	79	355	223	578
SCHOOL OF BUSINESS ADMINISTRATION											
Accounting	52	1	27	4	24	1	0	2	103	8	111
General Business Administration.....	38	1	19	1	26	0	5	1	88	3	91
Industrial Management	19	0	24	0	14	0	0	0	57	0	57
Insurance	0	0	5	0	12	0	1	0	18	0	18
Marketing and Advertising.....	64	0	47	3	50	4	1	0	162	7	169
Secretarial Studies	0	7	0	5	0	5	0	0	0	17	17
Unclassified	0	0	1	0	1	0	99	16	101	16	117
Total Business Administration.....	173	9	123	13	127	10	106	19	529	51	580
SCHOOL OF ENGINEERING											
Chemical Engineering	12	0	13	0	16	0	0	0	41	0	41
Civil Engineering	39	0	26	0	22	0	0	0	87	0	87
Electrical Engineering	50	0	34	0	22	0	1	0	107	0	107
Engineering Mathematics	0	0	0	0	1	0	0	0	1	0	1
Industrial Engineering	19	0	15	0	7	0	0	0	41	0	41
Mechanical Engineering	62	1	52	0	46	1	0	0	160	2	162
Aeronautics Option	3	0	6	0	0	0	0	0	9	0	9
Physics	7	0	2	0	6	0	0	0	15	0	15
Unclassified	0	0	0	0	2	0	133	0	135	0	135
Total Engineering	192	1	148	0	122	1	134	0	596	2	598
SCHOOL OF HOME ECONOMICS											
Child Development	0	13	0	7	0	0	0	0	0	20	20
Foods and Nutrition.....	0	13	0	9	0	0	0	0	0	22	22
Home Economics General.....	0	1	0	1	0	0	0	0	0	2	2
Teacher Training	0	5	0	2	0	0	0	0	0	7	7
Textiles and Clothing	0	18	0	8	0	0	0	0	0	26	26
Unclassified	0	0	0	0	0	55	0	79	0	134	134
Total Home Economics.....	0	27	0	55	0	79	0	79	0	211	211
NURSING	0	15	0	9	0	10	0	14	0	48	48
UNCLASSIFIED									36	10	46
Undergraduate Totals	479	131	391	89	379	125	404	193	1688	548	2236
Special Students									5	15	20
Ninth Semester									1	0	1
Graduate Students									78	29	107
GRAND TOTAL									1772	592	2364

TABLE 3—The number of students matriculated by classes for each of the semesters of the year 1949-50.

Class	September, 1949		February, 1950		Total	
	Men	Women	Men	Women	Men	Women
Graduate	37	10	16	10	53	20
Senior	1	1	7	2	8	3
Junior	9	1	16	0	25	17
Sophomore	17	3	15	0	32	18
Freshman	445	196	19	6	464	215
Special	0	1	0	0	0	1
Totals	509	212	73	18	582	274

TABLE 4—The reasons for withdrawal as recorded in the descending order of numbers for each.

The year closed with a loss of 311 students for reasons other than graduation. Expressed in percentage of the maximum total enrollment for the year, the loss was 12 per cent as compared with 204 or 8 per cent of the enrollment the preceding year.

1. Dismissed for low scholastic standing.....	112
2. No reason given, but did not register for second semester.....	80
3. Financial difficulty	31
4. Employment	23
5. Illness	20
6. Personal	19
7. Transfer to another college.....	13
8. U. S. Armed Forces.....	3
9. Change of residence.....	3
10. Voluntarily withdrew because of low grades.....	3
11. Poor health	2
12. Travel	1
13. Transportation difficulties	1
	<hr/> 311

TABLE 5—Comparative enrollment, without duplicates, of students in residence for the academic years 1948-49 and 1949-50, plus summer schools and extension courses, the latter with duplicates not omitted.

	1948-49			1949-50		
	Men	Women	Total	Men	Women	Total
Graduate Students	45	21	66	90	39	129
School of Agriculture.....	185	0	185	201	3	204
School of Arts and Sciences.....	412	247	659	410	238	648
School of Business Administration.....	618	58	676	567	64	631
School of Engineering	728	7	735	660	2	662
School of Home Economics	0	207	207	0	230	230
Nursing	0	43	43	0	48	48
Irregular Students	33	32	65	....	....	....
Ninth Semester .....	....	....	....	5	0	5
Special Students .....	....	....	....	8	31	39
Unclassified Students .....	....	....	....	21	9	30
Total	2021	615	2636	1962	664	2626
Summer School	448	201	649	522	249	771
Extension	2257	426	2683	2874	537	3411
GRAND TOTAL	4726	1242	5968	5358	1450	6808

TABLE 6—The comparative enrollment of veterans for the past four years.

During the academic year a total of 929 veterans were enrolled at the college in residence and using G.I. benefits, of which 920 were men and 9 were women. This was a continued drop in veteran enrollment from the peak in 1947-48.

Year	Veterans	Non-Veterans	Total	Percentage
1946-47.....	1255	979	2234	56
1947-48.....	1402	1115	2517	56
1948-49.....	1124	1541	2665	42
1949-50.....	929	1592	2521	37

TABLE 7—The home residence of students enrolled in the degree curricula in all classes, September 12, 1949, to June 12, 1950.

A. Residents in Rhode Island by Counties and Towns:

Bristol:		Washington:	
Barrington	34	Charlestown	4
Bristol	38	Exeter	1
Warren	14	Hopkinton	14
	—	Narragansett	28
	86	North Kingstown	51
Kent:		Richmond	13
Coventry	24	South Kingstown	110
East Greenwich	51	Westerly	103
Warwick	137		—
West Warwick	41		324
	—		
	253		
Newport:		B. Residents outside Rhode Island:	
Jamestown	12	California	1
Little Compton	7	Connecticut	35
Newport	149	Georgia	1
New Shoreham	1	Hawaii	1
Portsmouth	14	Illinois	1
Tiverton	12	Maine	6
	—	Massachusetts	102
	195	New Hampshire	1
Providence:		New Jersey	18
Burrillville	17	New York	71
Central Falls	30	North Dakota	1
Cranston	162	Ohio	1
Cumberland	11	Pennsylvania	3
East Providence	96	Virginia	1
Foster	2	Washington, D. C.....	1
Glocester	8		—
Johnston	18		244
Lincoln	35		
North Providence	35	C. Residents of Foreign Countries:	
Pawtucket	182	France	1
Providence	599	Guatemala	1
Scituate	10	India	1
Smithfield	15	Norway	1
Woonsocket	83	Turkey	2
	—		—
	1303		6

Total attendance from Rhode Island.....	2161
Total attendance outside Rhode Island	244
Total attendance from Foreign Countries.....	6

**TABLE 8—Preparatory schools represented in the freshman class,
September 12, 1949, to June 12, 1950.**

In Rhode Island:

Barrington:	
Leander R. Peck High.....	9
Bristol:	
Bristol Senior High.....	7
Colt Memorial High.....	1
Burrillville High	3
Central Falls High.....	5
Coventry High	6
Cranston:	
Cranston High	44
Garden City High	2
Cumberland High	3
East Greenwich High.....	7
East Providence:	
East Providence High.....	21
Providence Country Day	2
St. Mary's Bay View.....	1
Newport:	
De LaSalle Academy	6
Rogers High	22
St. Catherine's Academy.....	2
North Kingstown High	18
North Providence High	5
Pawtucket:	
East Senior High.....	27
West Senior High.....	16
Sacred Heart High.....	1
St. Raphael's Academy.....	4
Providence:	
Central Senior High.....	10
Classical High	26
Hope High	50
LaSalle Academy	41
Lincoln School	2
Moses Brown	3
Mt. Pleasant High.....	27
Sacred Heart Convent	1
St. Xavier's Academy.....	14

South Kingstown High.....	30
Warren High	2
Warwick:	
Nelson W. Aldrich High.....	15
Samuel Gorton High	8
James T. Lockwood High.....	9
Westerly:	
Gov. Samuel Ward Senior High..	20
West Warwick Senior High.....	15
Woonsocket:	
Mt. St. Charles Academy.....	1
St. Clare High.....	1
Woonsocket High	15
<hr/>	
Total from Rhode Island.....	502
Equivalency Examinations	1
Transfers	63

Outside Rhode Island:

California	3
Connecticut	17
Georgia	1
Illinois	1
Japan	1
Maine	3
Massachusetts	35
Minnesota	1
New Hampshire	5
New Jersey	8
New York	27
Virginia	2
Washingotn, D. C.....	1
West Virginia	1
<hr/>	
Total from outside Rhode Island	106

Of the 645 graduates, 490 matriculated in the College in 1946, taking the normal four years for completion of their college work. Forty-five students, because of credit transferred from other colleges or from the Armed Services and/or by taking advantage of summer schools, were enabled to complete their work in residence in less than four years, while 105 were forced to take a longer period. While some of these had to take more than four years because of low scholarship, poor health, etc., the majority had their college career interrupted by military service in World War II.

Ten graduate students were granted the degree of Master of Science; two in chemical engineering, two in chemistry, two in physics, one in botany, one in animal husbandry, one in education, and one in agronomy.

TABLE 9—The distribution by curricula and degrees of the 645 students receiving the Bachelor's Degree in 1950.

Of these, 21 completed their degree requirements at the end of the summer session for 1949, and 41 at the end of the first semester, January 31, 1950.

	Bachelor of Science		
	Men	Women	Total
Agriculture	43	1	44
Arts and Sciences			
Biology	7	9	16
Biological Laboratory Technology.....	0	1	1
Chemistry	13	2	15
General Teacher Education	5	2	7
Liberal Studies	5	0	5
Physical Education	18	0	18
Pre-Medicine	13	0	13
Mathematics	0	4	4
Business Administration	186	12	198
Engineering			
Chemical	10	0	10
Civil	34	0	34
Electrical	44	0	44
Industrial	23	0	23
Mechanical	63	0	63
Aero. Option	3	0	3
Physics	6	0	6
Home Economics	0	53	53
Nursing	0	12	12
	473	96	569
	Bachelor of Arts		
	Men	Women	Total
Arts and Sciences			
General Teacher Education	3	11	14
Liberal Studies	27	30	57
	Bachelor of Education		
	Men	Women	Total
Arts and Sciences			
General Teacher Education	5	0	5
Grand Total	508	137	645

At the June Commencement, four honorary degrees were conferred as follows:

Doctor of Education, Benjamin Fine; Doctor of Laws, Arthur Stanton Adams, Edward Lawrence Leahy; Doctor of Humane Letters, Granville Gaylord Bennett.

JOHN C. WELDIN, Registrar

The College Library

FOLLOWING is a statistical summary of library activities for the academic year 1949-50:

GROWTH

Volumes added by purchase	2,624
Volumes added by gift.....	1,500
Volumes added by binding ...	1,671
Volumes added by Experiment Station	14
Total volumes added during the fiscal year 1949-50.....	5,795
Total volumes withdrawn	545

INVENTORY

Volumes in library June 30, 1949, including Experiment Station and Extension Division	100,179
Total volumes, June 30, 1950.....	105,429
Periodicals received by purchase.....	743

CIRCULATION

Volumes lent for home use (Faculty).....	5,843
Volumes lent for home use (Students).....	19,669
Overnight reserves	3,638
Total circulation	29,150
Reserved books lent for use in Library.....	9,518
Courses having books on reserve.....	122
Total reserved book circulation.....	13,156
Volumes placed on reserve.....	1,704
Interlibrary loans:	
Volumes borrowed from other libraries.....	135
Volumes lent to other libraries.....	8

EXPENDITURES

Salaries, including student assistants.....	\$28,710
Travel	400
Supplies and equipment.....	750
Library of Congress printed cards.....	722
Binding	2,300
Books and periodicals.....	19,878
Total	\$52,760
Percent of total institutional budget for the library.....	2.2

GIFTS, EXCHANGES AND OUTSTANDING PURCHASES

During the year 1949-50 we received gift material from the following: President Woodward, Dean Brucher, Dean Balentine, Dean Weldin, Prof. Ince, Prof. Barnard, Prof. Sander-son, Prof. Cheadle, Prof. White, Prof. Pitterman, Prof. Gardner, Prof. Miller, Mr. McCullough, Miss Potter, Mr. Clayton and Mr. Rohe. Our off-campus donors include Dr. Guido Ceppi, William Parker '49, Robert Beall '49, Daniel Hazard, George

Stevens, Mrs. Royal Little, Kenneth Bohuslow, Carle M. Bigelow '13 and Leonard Euart.

As a memorial to the late Rev. Harry McCready, a collection of books in the field of philosophy has been donated to the library from a group of alumni. Mrs. Esther Livingston Roberts '40 gave a considerable number of volumes for this collection.

More than 100 volumes in the field of labor statistics came to the college from the estate of the late Professor Mabel Dickson. From the estate of the late Mrs. Frederick Pember, the library received a considerable number of volumes in the field of literature.

From the Washington County Pomona Grange, we received a copy of *The Grange, a friend of the farmer, a concise history of the grange 1867-1947* by Charles Gardner. From the Rhode Island French Merci Train, we received the *Histoire des Jardins* by Arthur Mangin published in Tours in 1883, 444 p. and *La France, Paris et les Provinces* by de Pierre, Paris, 1948, 462 p.

Probably our outstanding purchase of the year was the 37 vol. set of *Enciclopedia Italiana di Scienze, lettere ed arti*, Istituto Giovanni Treccani, Rome, 1929-1930. We also added to our reference collection the new Swiss Encyclopedia *Schweizer Lexikon*, Zurich 1947, 7 vols.

To strengthen our holdings in chemical journals, we have begun a program of attempting to complete our sets of the outstanding German titles on micro film. During the year, we have secured Justus Liebig's *Annalen der Chemie*, 1918-1939, volumes 415-542, and the *Deutschen Chemischen Gesellschaft, Berichte*, 1913-1938, volumes 46-71. Another purchase in German in the sciences is the *Naturforschung und Medizin in Deutschland*, 1939-1946, Dietrich, Wiesbaden, 1948.

In the field of bibliography, we have added Besterman, Theodore, *World Bibliography of Bibliographies*, 3 vols., 2nd edition, 1947-1949; the long awaited Alden, John E., *Rhode Island Imprints, 1727-1800*, Bowker, 1949; and Northup, Clark S., *Register of Bibliographies of the English Language and Literature*, Yale University Press, 1925. We have started to receive the first of 12 volumes of the *Subject Index to Bibliography of Scientific and Industrial Reports*, 1946-1949, *Part I—Agricultural Chemicals*. Among our purchases in literature, we have added the complete works of Arthur Symonds, Algernon Charles Swinburne and Edmund Spenser.

We have completed our set of Pastor, Ludwig, *History of the Popes*, 35 volumes.

Seventeen volumes were added to the library by purchase through our cooperation in the Farmington Plan of European book acquisition as outlined in the librarian's report for 1947-48. These titles were in the fields of Farm Economics, Agricultural Chemistry, Fertilizers, Field Crops, Pests and Diseases, Economic Entomology and Economic Zoology.

Through the courtesy of Mr. T. P. Hazard, the Library has received the collection of musical scores used for many years by the Narragansett Choral Society. Approximately 50 titles are included in this collection which will be available for loan to any interested group in the South County area under the terms of the gift.

Considerable added use has been made this year of the Micro Film Reader. Our collection of the New York Times, Providence Journal and the Westerly Sun on micro film receives an increased amount of use each month. The Upper Air Research Project personnel have made considerable use of the Micro Film Reader in addition to the use made by the Chemistry Department of the chemical periodicals already referred to.

The library has recently acquired a Micro Card Library Reader and we are now receiving the Saturday Review of Literature on micro cards. We have also secured volumes of the American Historical Review, Botanical Gazette and Transactions of the American Institute of Chemical Engineers which were lacking in our sets and were out of print.

The following new titles were added to our subscription list beginning January 1, 1950:

Air Affairs
American Press
American Psychologist
American School Board Journal
American Sociological Review
Association of American Medical Colleges
Journal
Bulletin of Entomological Research
Case and Comment
Crippled Child
Department Store Economist
Educational Leadership
Elementary School Journal
Entomologicae Americana
Experimental Cell Research

Fertility and Sterility
Instrumentalist
Journal of Animal Ecology
Journal of Politics
Menninger Clinic Bulletin
Metal Progress
Metals Review
Middle East Journal
Museum News
National Elementary Principal
National Underwriter
Notulae Naturae
Opportunity, The Salesman's Guide
Organization of American States. Annals.
Psychiatry

Psychosomatic Medicine
Quarterly Journal of Studies on Alcohol
Review of Politics
Revue Historique
Royal Society of London. Proceedings.
Series B.

Russian Review
Sociological Review
Soviet Press Translation
United Nations Documents Index
World Interpreter
Zeitschrift fur Pflanzenkrankheiten

The following sets of journals were completed in 1949-50:

American Chemical Society. Journal. v. 1-12, 1879-1890
American Political Science Review. v. 1-22, 1907-1928
Economic History Review. v. 1-12, 1927-1942
Elisha Mitchell Scientific Society. Journal. v. 21-45
Genetics. v. 1-23, 1916-1938
Journal of Experimental Zoology. v. 1-11, 41, 42, 1904-1911, 1924-1925
Physiological Reviews. v. 1-18, 1921-1949
Tropical Woods. Nos. 1-85, 1930-1950
Ecological Monographs. v. 1-16
U. S. Temporary National Economic Committee. Investigation of Concentration of Economic Power. Monographs. 8 volumes.
International Council for the Study of the Sea: Journal du Conseil. v. 1-16, 1926-1949
Journal of Marine Research. (Yale. Bingham Oceanographic Lab.) v. 1-8, 1937-1949

TECHNICAL PROCESSES DIVISION

Miss Briggs again reports a decrease in the number of volumes added by purchase. This situation reflects the need for a substantial increase in funds for the purchase of books and periodicals. It also reflects the fact that although our book funds are substantially the same, they do not purchase as many titles due to increased costs, particularly of subscriptions to scientific journals. Our increased subscription list has also necessitated greater expenditures for binding and binding costs have greatly increased. The number of volumes received by gift is substantially the same as last year and the number received by binding has increased by nearly 200.

Miss Hutchinson reports considerable progress on the cataloging and arranging of the U. S. Army Map Service collection. She has also arranged by state our collection of the transportation road maps of the U. S. Bureau of Public Roads. The geologic atlas folios have been added to the rest of our map collection. Our card catalog of maps has been brought up to date and is available to the public. Our documents collection has been greatly strengthened during the year. The "serial set" and the bound volumes of the Congressional Record have been brought to the second stack level where the current documents are shelved.

SERVICE TO READER'S DIVISION

Mr. Talbot reports that the main circulation desk and

New England Land-Grant Library Statistics

State	Expendi- tures 1946-47	Expendi- tures 1947-48	Expendi- tures 1948-49	Floor Space (sq. ft.)	Total No. of Vols. 1948-49	Total of Vols. Added 1948-49	No. of Periodicals Rec'd Cur- rently by Purchase 1948-49	No. of Periodicals Rec'd Cur- rently by Gift 1948-49	Expenditures for Books & Periodicals 1948-49
Conn.	\$32,587	\$42,718	\$97,858	43,461	119,351	7,459	1,500	13	\$44,685
Me.	44,472	64,671	52,570	52,500	225,666	7,970	703	330	14,000
Mass.	38,580	46,118		29,133	152,000	4,600	591	136	18,200
N. H.	57,795	70,243	72,479		157,294	8,946	920	230	15,069
R. I.	38,021	47,447	51,248	14,170	100,179	6,643	742	225	15,000
Vt.	37,353	57,515	63,186	22,000	174,222	4,704	769	250	5,522

reading room operated far beyond their capacity, with neither sufficient study space nor seating space, particularly during the evening hours. There was nearly a 50 per cent increase in books loaned to faculty and students for home use. A section of the reference collection was condensed to provide for an open shelf browsing collection of non-academic reading which has proved very popular. An experimental open reserve collection for two courses was another innovation in the main reading room which had wide approval from the students involved. The Reserve Book Room in the basement has felt the pressure of the general increased use of the library, according to Miss Rodman. The great increase in the number of students enrolled in graduate studies has added to the work of this division.

EQUIPMENT AND PHYSICAL PLANT

The major item of equipment purchased consisted of metal stacks which were installed at the ends of the aisles on the first stack level parallel with the outside walls of the building.

NEEDS

Our major needs are those which are the natural result of the constant growth of our book collection. The attic of Green Hall must be utilized for added stack space to take care of the normal accessions. Unless the library expands to the first floor of Green Hall within the near future, it will be necessary to convert the librarian's office into quarters for a home use circulation desk. The present arrangements with the main circulation desk in the main reading room results in too great an amount of confusion with our greatly increased amount of library use. The withdrawal and return of home use material must take place outside our main reading room if we are to achieve even fair study conditions for our patrons. The following table indicates our relative position compared with the other New England land-grant university libraries. We make our poorest showing in regard to the amount of floor space for library purposes. Much of our program of library development is at a stand-still until all of Green Hall becomes available for library purposes.

F. P. ALLEN, *Librarian*

The School of Agriculture

THE 1949-50 college year has been a good one for Agriculture.

The School has had the largest enrollment of its history with 203 students during the fall semester. The largest graduating class of 45 students completed their work during the year.

Special scholarships made available through funds donated to the School of Agriculture included the following:

Sears-Roebuck Foundation scholarships of \$100 each were awarded to James A. Dame, Robert C. Hackett, George Haseotes, James R. Kollett, Thomas F. Pelletier and Stewart R. Williamson. Scholarships of \$50 each were awarded to Charles D. James and Rogelio Cuellar. Henry J. Cook, Jr. was selected as the sophomore to receive the \$100 award for having been the best freshman in the Sears scholarship group.

Hubert Lary was awarded the Danforth Foundation Fellowship for a junior, which included a 2-week trip to the Ralston Purina plant in St. Louis and a 2-week stay at their camp in Shelby, Michigan. The freshman boy who was selected for the 2-week trip to the same camp was Paul Poitras.

John Kitchen was awarded the \$100 Burpee scholarship for his outstanding work in horticulture.

Robert Dunbar, a member of the class of 1948, has been awarded \$200 from the H. P. Hood Dairy Foundation Fellowship for advanced study at Cornell during 1950-51. Awards of \$50 each were made to Minot J. Crowell, William J. Marcil and Conrad R. Skogley for the John Samuel Clapper Memorial Grant for turf study.

Two judging teams competed in the intercollegiate contest held in connection with the Eastern States Exposition. The dairy cattle team placed fourth out of 11 teams, the dairy products team ranked sixth out of nine. The poultry judging team competed in the Eastern Intercollegiate Poultry Judging Contest at Rutgers University. They placed third and were presented with a loving cup.

A summary of the research work in agriculture is published under separate cover as the Annual Report of the Agricultural Experiment Station. In addition to the federal and state funds available for the support of research, the following special gifts and grants were received for special research projects as indicated.

American Cyanamid Company, New York, to study the destruction of weed seeds in soil	\$1,200.00
Army Chemical Corps, Camp Detrick, Md., for agronomy field plot experiments	3,300.00
Charles M. Cox Company, Boston, for mastitis control studies.....	1,000.00
Gallowhur Chemical Company, New York, to develop pesticides.....	325.00
Mallinckrodt Chemical Works, St. Louis, to develop and test turf fungicides.....	1,725.00
Merck & Company, Rahway, N. J., to study the fungistatic, fungicidal and phytocidal properties of chemicals.....	1,250.00
O. M. Scott & Sons, Marysville, Ohio, for research in turf and weed control.....	2,500.00
Orville O. Clapper, West Newton, Mass., John Samuel Clapper Memorial Grant	500.00
Phelps-Dodge Corporation, New York, testing of certain chemicals as fungicides	1,000.00
Rhode Island Fruit Growers' Association, Chepachet, for research in apple storage	237.50
Standard Oil Development Company, Elizabeth, N. J., to study petroleum products as herbicidal agents.....	600.00
New England Golf Association, for studies on improvement and maintenance of turf	1,200.00
U. S. Golf Association, Beltsville, Md., for studies on improvement and maintenance of turf.....	300.00
W. A. Cleary Corporation, New Brunswick, N. J., for studies in turf and weed control	1,725.00
	<hr/>
	\$16,887.50

EQUIPMENT

Construction has started on a new nutrition laboratory at East Farm for research and classroom purposes. Materials were purchased for partial construction of a new storehouse for the egg laying contest and for a new turkey pen.

The experimental isolation barn at the Peckham Farm for rearing calves and heifers used in the study of sterility has been completed. In addition, a new Korok tile silo has been added to this unit. A Navy surplus batch-type ice cream freezer and cabinet have been put into use at the dairy for classroom work. The laboratory for processing and storing semen has been completed with funds made available by the state legislature to the Rhode Island Breeders' Cooperative, Inc.

A Perkin-Elmer flame photometer for the analysis of mineral elements in grasses and other materials has been added at Taft Laboratory. A one-half ton truck for field use was purchased by the department of plant pathology and entomology. Two new brooding houses are under construction at the Peckham Farm.

Certain items of drafting equipment have been purchased for use in the landscaping courses. A power pruner was secured for the orchard at East Farm. Other necessary equipment for market gardening and orchard research was purchased. A walk-in refrigerator has been added at the agricultural sales-room.

COLLEGE FARM

An additional 20 acres of Peckham Farm land has been cleared and seeded down with oats as a nurse crop to a mixture of grasses and legumes. A pond for watering livestock was constructed at one corner of the grazing area during the dry summer period by scooping out a reservoir with a bulldozer. Inlet and outlet ditches were later blasted to connect the pond with a nearby stream to ensure a fresh water supply.

The department of agronomy has set out a small crops garden for use in teaching students the characteristics of grasses, legumes, grains and other field crops. About 1,500 bushels of potatoes were furnished the College dining hall during the year from the experiment station agronomy plots.

Several hundred cedar posts were cut from the College woods and made available to several departments. Two new small tree plantations were established, one with lodgepole pine and the other with European larch.

DAIRY HERD

During the past year the College dairy herd of 60 milking cows produced an average of 9,035 pounds of milk and 395.1 pounds of butterfat when tested by the Southern Rhode Island D. H. I. A. Under Herd Improvement Registry testing, sponsored by the purebred associations, 12 Ayrshire cows averaged 380 pounds of fat (mature equivalent), 15 Holstein cows produced an average of 434 pounds of fat, and 12 Jersey cows showed an average production of 376 pounds of butterfat. Based on the excellence of type and production of the Ayrshire herd, the College was awarded its third consecutive Constructive Breeder Award.

Two new Holstein sires were put into service in the herd, NJES Conqueror Eva Marlin and a young bull calf, a son of Newmont Aristocrat. The College was also given a half interest in the Holstein bull calf Bayfield Grawin Glorious by George F. Causey, Wakefield. A new Jersey sire, Westmoreland Jest Sleeper, was purchased during the year.

Elmknowl Champion Douglas, an Ayrshire bull owned by the College, was shown by Windrow Farms, Oxford, Mich., and was judged grand champion bull at the Ohio and Michigan State Fairs. There are several daughters of this outstanding bull in the herd.

EGG LAYING CONTEST

Entries in the 19th Rhode Island Egg Laying Contest came from 12 different states.

The contest was again won by a pen of Rhode Island Reds with a production of 3533 eggs scoring 3768.7 points. Only 11 of the original 13 birds in the pen were living at the end of the test.

Individual bird honors went to an In-Cross-Bred from Rucker's Imperial Breeding Farm, Ottumwa, Iowa. This bird scored 343.9 points on 318 eggs for the 51 weeks of the test.

DIAGNOSTIC SERVICE

During the year there were 404 submissions of poultry from 224 farms to the laboratory. The most important diseases noted in the 1225 chickens examined were infectious bronchitis, Newcastle disease, leucosis, and reproductive disorders. Infectious bronchitis was found in 54 and Newcastle disease in 53 of the submissions.

Coccidiosis has become a minor problem as a result of the wide use of sulfaquinoxaline.

FEED AND FERTILIZER CONTROL SERVICE

In cooperation with the Rhode Island Department of Agriculture and Conservation, members of the department of agricultural chemistry analyzed 701 samples of commercial feeds and 235 samples of fertilizers and liming materials. These analyses are compared with the guarantees for chemical components required on the labels for these commodities by State laws. These laws are enforced by the State Department of Agriculture and Conservation, while the College provides analysts, laboratory facilities, technical advice and reports of the inspection for publication.

SOIL ANALYSES

In cooperation with the Agricultural Extension Service, 1416 samples of soils were examined in the department of agricultural chemistry. The samples are submitted by farmers, home-owners, nursery men, managers of golf courses and cemeteries, and others. The results are reported to the different crop specialists to aid in making recommendations for improved

field practices. Similar services are offered by most states, and their value is shown by a growing popularity.

OTHER SERVICES

The Southern New England Farm and Home Show was held in Providence March 7-10, 1950. It was sponsored by the Rhode Island Agricultural Conference, the State Department of Agriculture and Conservation, and the College. The department of horticulture was in charge of the College booth. Parts of this exhibit were also set up at the Rhode Island Sportsman Show April 17-23.

The state enrollment in the New England Green Pasture Program for the past year was 102. The Ashton Keynes Farm, managed by Randolph Blackmere, was selected as the state representative. The three regional winners from each state were feted at the Eastern States Exposition. H. G. Allbritten, of the agronomy department, represented Rhode Island on the New England Committee.

Approximately 150,000 laying hens were included in the infectious bronchitis program. Most of these birds were immunized against the disease, although a considerable number of flocks did not require vaccination since the disease had already occurred among them.

The School of Agriculture urgently needs additional facilities. The Board of Trustees recognized this and added a new agricultural science building to their request for new facilities to the 1950 legislature. Since no action was taken by that body, it is hoped that this request may be submitted again to the next legislature with favorable results.

MASON H. CAMPBELL, *Dean*

School of Home Economics

RESIDENT INSTRUCTION

ENROLLMENT in Home Economics for the 3-year period, 1947-50 compared with 1939-40 shows the growth in the undergraduate instructional program.

Individual Enrollments — School of Home Economics

	Home Economics Students	Non-Home Economics Students	Total
1939-40.....	.....	.....	approx. 800
1947-48.....	998	208	1206
1948-49.....	1249	387	1636
1949-50.....	1230	477	1707

The faculty continued its work in improving the curricula of the School of Home Economics. Changes in the requirements of the freshmen and sophomore years now provide a more satisfactory distribution of required courses in all areas.

Graduate work expanded in the field of Child Development and Family Relations and in Home Economics Education. Graduate courses were offered on the campus and in Providence.

Achievement tests prepared by the American Home Economics Association and published by the Cooperative Test Service were used in Food and Nutrition, Textiles and Clothing, and Home Management courses this past year. These tests aid the faculty in improving instruction as well as aid in the course placement of students.

There has been an increase in the number and types of field trips and other off-campus activities for undergraduate students. There has also been increased use of visual aids in all undergraduate instruction.

GENERAL EXTENSION

In-service educational programs for teachers of Home Economics continued during the past year. The School of Home Economics cooperated with the Rhode Island Restaurant Association in sponsoring a course in food administration.

RESEARCH

Home Economics research in the Agricultural Experiment Station continued in two major areas. Studies in nutritional status under the direction of Dr. Ruth E. Tucker and a research project in farm housing under the direction of Professor

Blanche M. Kuschke are in progress. The nutritional status study of 100 college freshmen and 66 high school students is for the purpose of determining nutritional status by medical examination, microchemical analysis of blood samples for certain nutrients, and a dietary record of actual food consumption. The research project in farm housing is a continuation of a 3-year study of farm housing in the northeast region completed in 1949. Both studies are part of regional cooperative projects carried on among experiment stations of the Northeast.

STUDENT ACTIVITIES

In addition to an active program for its members the Home Economics Club had the honor of having one of its members, Mrs. Sally Keleher Goodwin, elected chairman of the Student Club Department of the American Home Economics Association during the past year. The 1950-51 vice-chairman of the national organization is also a Rhode Island State College Home Economics student, Miss Fae Tilley.

An American Home Economics Association International Fellowship student from England was assigned to Rhode Island State College for study in the School of Home Economics during 1950-51. She is Mrs. Ellen Herrington, London. She also received a Rhode Island State College trustee scholarship for foreign students. The active participation of the Home Economics Club in raising funds for the National Scholarship Fund and the leadership evidenced in national work was a factor in the decision of the Committee in assigning a student to this College.

Joyce Stockton was awarded a Danforth Foundation Award during the summer of 1949, and spent two weeks in St. Louis as the guest of the Ralston Purina Company and two weeks at a leadership training camp in Michigan.

Two Sears-Roebuck Company scholarships are now available for freshmen in Home Economics.

LEAVES OF ABSENCE

Prof. Grace Burwash was on sabbatical leave during the fall semester, touring European fashion houses and clothing departments of several American colleges. Prof. Edith Andrews was on leave during the spring semester studying foods and nutrition programs in land-grant institutions.

PHYSICAL PLANT

Some improvements and repairs were made during the past year in the Home Management House and in the Nursery School. There is need for providing additional laboratories and offices for Home Economics as soon as space can be made available in Quinn Hall.

OLGA P. BRUCHER, *Dean*

The School of Engineering

IN the year just concluded, the School of Engineering, like the rest of the college, made history in that its largest class was graduated. In many respects the year was a difficult one because of the large number of students. Senior laboratories, originally designed and laid out for much smaller groups, were operated far above capacity, even though many more sections were organized. Instructors were fully aware of the situation, however, and the general feeling was that the usual standards were upheld. Student advisors, both in curricular matters and in those affecting the student professional societies, had considerably expanded duties.

CURRICULUM AND COURSE CHANGES

An option in engineering physics in the general physics curriculum was approved during the year and will go into effect next fall with the sophomore class. The objective of this option is to train physicists for positions with companies who are concerned chiefly with engineering applications of physics as contrasted to the more theoretical aspects.

Minor changes have been authorized in several of the engineering curricula and fairly complete revisions have been made of industrial and mechanical engineering, including the aeronautics option. The objective in mechanical and aeronautical engineering has been to strengthen the heat-power and machine design phases of the work. In industrial engineering some new courses have been added to strengthen that portion of the curriculum offered by the School of Engineering.

IMPROVEMENTS IN FACILITIES

The metallurgy laboratory now has greatly improved facilities in the basement of Lippitt Hall. A small room, specially equipped for microscopic examination of metal specimens, is partitioned off from the heat treating laboratory with a wood and glass partition. This arrangement permits the instructor to exercise supervision over groups working in both laboratories simultaneously. The heat treating facilities have been expanded considerably and now include two heat treating furnaces, a salt-bath furnace and a Lepel induction heating

unit. In addition, the laboratory is equipped with a unit for the non-destructive testing of castings. These metallurgical laboratories, while filling an important gap in the engineering students' instructional program, should also prove to be a great asset to the Engineering Experiment Station in tackling research problems in the field.

Other new equipment installed in the various laboratories during the year include a Moor Rotating Beam Fatigue Testing Machine, a Creep Testing Frame, Column Testing Apparatus, a Witte Diesel Engine, and two Shell and Tube Heat Exchangers.

ENGINEERING EXPERIMENT STATION

This year marked the conclusion of a 2-year contract with the Air Materiel Command on certain studies of the insolation of the atmosphere conducted by various members of the physics department under the direction of Dr. Arthur L. Quirk. They designed, constructed and operated instruments which were installed in Aerobee rockets. A successful flight was made and much pertinent data were obtained. The contract was just recently renewed for another year.

A project under the direction of Prof. Henry Campbell has been completed for the New England Interstate Water Pollution Control Commission on a Survey of Industrial Wastes from Textile Plants in the New England Compact Area. Further work on a new contract is underway.

The project on Rhode Island coal was concluded during the year with a demonstration run, showing the production of mineral wool and gas before a group of industrialists, chamber of commerce and industrial port and development representatives and others.

Research on the holding power of wood screws in shear is in progress, Professors Arthur A. Collard and Edson I. Schock collaborating.

A new project has been initiated on the utilization of fly ash from Rhode Island power plants.

PROPOSALS FOR FUTURE DEVELOPMENT

The urgent need for replacement of certain large items of laboratory equipment was stressed in last year's report. Since

funds were not available for purchase of the equipment during the year, the need is just as urgent.

Plans for an addition to Bliss Hall to house the various laboratories scattered around the campus in Quonset huts and other temporary buildings are being formulated. It is hoped that such an addition can be built within a few years.

As regards the future development of our academic program and our research, it would appear that the college, as a land-grant institution, should give more attention to the two largest industries of the state, textiles and jewelry. Certain requirements of the textile industry are being handled adequately by other institutions, but there appears to be a need both for professionally trained men and for research assistance, particularly in the engineering field. The School of Engineering stands ready to meet this need and plans to submit recommendations for development of courses and research projects along the lines indicated.

The question as to what services other than research the School can offer to the jewelry industry needs further study. A committee will be appointed during the next year to make such a study and it is hoped that some definite recommendations will result. In the research phase, we are at present well equipped to give assistance on metallurgical problems and we expect to broaden and expand our facilities to include electro-plating and other fields pertaining to the industry.

T. STEPHEN CRAWFORD, *Dean*

School of Arts and Sciences

TOTAL registration within the School of Arts and Sciences decreased approximately five percent from last year. The School maintained the same relative position in size, being second to the School of Engineering.

The liberal studies curriculum continued to be the most popular one and included nearly 40 percent of the registration of the School. While the total number in this curriculum was slightly higher than last year, the number of men increased considerably and exceeded for the first time the number of women. The curricula in biology, general teacher education, teacher training in physical education for men, and chemistry follow next in order of size and all continue to attract substantial numbers of students.

STAFF CHANGES

Changes in the teaching staff continued to be numerous, involving changes in the leadership of five departments. Prof. J. W. Ince, after 31 years of faithful and devoted service as professor of chemistry and head of the department of chemistry, reached the age of 70 in March and retired as of June 30, 1950. Dr. W. George Parks, a member of the department staff since 1931, was appointed to succeed Prof. Ince.

Leonard W. Weis, acting head of the department of geology and geography, resigned June 30, 1949, to continue graduate study. He was succeeded by Clarence E. Miller, assistant professor of geology and geography, as head of the department.

Mrs. Nancy C. French, assistant professor and head of the department of physical education for women, resigned as of June 30, 1950, and was succeeded by Dorothy Massey as acting head.

Col. Bartholomew R. DeGraff was reassigned as of July 1, 1949 and was succeeded by Col. Leroy C. Wilson as head of the department of military science and tactics.

Arnold V. Clair, assistant professor of music and acting head of the department of music from March, 1949, to June, 1950, succeeded himself as head of the department.

TEACHING PROGRAM

The effects of increased post war enrollments continue to

be evident. Record breaking registrations in courses are reported by several departments. The spring semester of 1950 recorded an all-time high of 137 students enrolled in bacteriology courses. The department of education and psychology reported 731 students enrolled in its classes during the year. There was a grand total of 1,347 students in the various courses of the department of English. The department of history and political science reported its largest-ever enrollment of 675 students. The department of sociology, 767 students. While often requiring adjustments within the department, these large enrollments were handled with remarkable efficiency.

The new graduate program in marine biology instituted in the fall of 1949 in cooperation with the Woods Hole Oceanographic Institution made a very impressive beginning. Eight students were admitted, seven as candidates for the degree of Master of Science and one as a special student in preparation for the doctorate in biological oceanography. In addition to the courses offered in the program by our own staff, a number of outstanding authorities in biological oceanography have come to the campus as guest lecturers. This has enabled us to offer graduate training that has been unique in scope and quality.

During the year, the faculty of the School of Arts and Sciences gave considerable attention through committee study and general discussion to the proper and effective use of oral and written English. A plan has been adopted and will be implemented with the beginning of the academic year 1951-52. Its essential features involve: (1) The administering of an English proficiency examination to all candidates for entrance with critical review of the scores as a factor of admission. (2) Excusing students with superior scores from further work in composition. (3) Establishing special sections of English composition for those students whose English test scores only were low. (4) Requiring passage of a proficiency test as a factor for satisfactory completion of the course in English composition. (5) Provision of a staff member for work with upper-class students showing poor ability in English composition.

RESEARCH ACTIVITIES

Large undergraduate enrollments have not contributed to the time available for individual research but a large number

of graduate students has resulted in an increased emphasis upon research. The continuance of a program of grants-in-aid for individual faculty research and the expansion of the program of sabbatical leave have combined to produce a larger total effort in research. Outside grants to departments and to individuals have been received in several instances and have added substantially to the total effort of the School.

1. GRANTS-IN-AID

These are allocated upon the requests of individual faculty members and for assisting them in their personal research. These grants-in-aid may be used for clerical help, student assistants, special supplies and equipment, purchase and distribution of reprints, or other appropriate purpose. Small sums of money accomplish surprising results in the stimulation of faculty research. The psychological uplift and the resultant motivation often appear to be in excess of the monetary aid.

Six grants-in-aid were made to as many members of the staff, representing five departments.

A list of the grants-in-aid follows:

<i>Department</i>	<i>Title of Project</i>	<i>By Whom Carried On</i>	<i>Amount</i>
Botany.....	Study of anatomical feature associated with onset of Dutch elm disease	Dr. Vernon I. Cheadle.....	\$250.00
Botany.....	Study of taxonomy of the <i>Characeae</i>	Dr. Richard D. Wood.....	250.00
English.....	Publications of reprints of scholarly articles in the field of Shakespearean drama	Dr. Warren D. Smith.....	75.00
History.....	Study of Rhode Island state government	Prof. John O. Stitely.....	150.00
Languages.....	Study of the evaluation of the preparation of teachers of modern foreign languages in the public secondary schools of Rhode Island	Prof. Raymond P. Maronpot.....	100.00
Zoology.....	Investigations of the resistance of fruit flies to certain chemicals of potential insecticidal value.....	Dr. Herbert C. Knutson.....	154.00
			<hr/> \$979.00

2. SABBATICAL LEAVE

Dr. Daniel H. Thomas returned from his sabbatical leave in Europe on August 22, 1949. Six months were spent in Brussels concentrating on research and writing; the remainder of the

time was spent in travel and study in other cities of Belgium, Denmark, Sweden, Switzerland, Italy, France and England. The grant of a fellowship by the Belgium American Educational Foundation contributed substantially to the length of Dr. Thomas' stay and the extent of his research in Belgium.

A second member of our staff, Dr. Frank L. Howard, professor of plant pathology, was granted sabbatical leave for the spring semester 1950. This was spent in research, writing and travel, and included several months in California and several weeks in an extensive tour throughout Europe.

Prof. Robert A. DeWolf of our department of zoology was granted sabbatical leave for the spring semester 1950, for graduate study at the University of Oklahoma.

New as a State College policy, and one to be carefully administered for the protection of the academic welfare of both individual and institution, these first three cases set a high standard by which to judge other requests. In each of these cases the knowledge and experience gained, the contacts established, the horizons extended and the enthusiasm generated amply justify in liberal returns any investment of public monies in the cooperative endeavors of individual and institution in a policy of sabbatical leave.

3. RESEARCH AND OTHER SCHOLARLY ACTIVITIES

A list of research projects by departments and individuals for the academic year, is as follows:

Bacteriology

1. *Dr. Philip L. Carpenter.*

a. By direction.

- (1) Studies of slow fermentation of lactose by members of the Enterobacteriaceae, by Edward F. O'Neill, Jr., to be completed for Master's thesis by September 1, 1950.
- (2) A study of media and methods for the isolation of *Streptococcus fecalis* from sewage, by an undergraduate student. To be completed June, 1950.
- (3) Physiological and serological comparison of certain German, Brazilian and American type strains of *Proshigella dispar*. By Souren Mouradjian. To be completed by May, 1950.

Botany

1. *Dr. Vernon I. Cheadle.*

- a. With additional grant-in-aid, made over 600 slides of plant materials of palms, bromeliads, and certain other families.
- b. Cooperative re-survey of salt and brackish ponds. See under Palmatier.
- c. Cooperative aid on thesis problems for two of Dr. Howard's students during his absence.

2. *Mr. Robert Lepper, Jr.*
 - a. Research on centrosomes as part of graduate study at University of Connecticut during 1949 summer session, and continuation of same during academic year.
3. *Dr. Elmer A. Palmatier.*
 - a. Direction of special problem by a graduate student (Roland W. Gilbert) "Ages attained by some of the shrubs native to Rhode Island."
 - b. A follow-up survey of 25 of Rhode Island's salt and brackish ponds and marshes was undertaken in August with V. I. Cheadle.
4. *Dr. Richard D. Wood.*
 - a. Continued work under a portion of a grant of \$300 from grant-in-aid fund from 1948 on the Characeae of North America. This portion was encumbered for use during the summer of 1949. A research fund of \$250 was granted in 1949 for assembling material toward final checking of the manuscript of the *Index nominarum Characearum*.
 - b. At invitation of the Addison-Wesley Press, accepted contract to rewrite the volume "Elementary Plant Physiology" with the original author (Dunn).

Chemistry

1. *Dr. W. George Parks.*
 - a. The catalytic pyrolysis and decomposition of cellulose. The objective of this project is to provide fundamental information of value in developing an efficient, durable, fire-resistant treatment for textile fabrics, particularly for clothing to be used in hazardous occupations. This investigation is supported by contract between the Rhode Island State College and the Office of Naval Research.
 - b. Chemical reactions for the preparation of amidone.
 - c. Metallo-organic compounds of titanium and zirconium.
 - d. The catalytic vapor phase oxidation of p-gymene to terephthalic.
 - e. Nylon dyed with acid colors.
 - f. The preparation of textile finishing chemicals with special properties.
 - g. Investigation of mildew-proof textile fabrics.
2. *Dr. Eugene C. Winslow.*
 - a. Directed research problem of William Nelson—"Vapor phase analysis and dehydration of derivatives of furnace acid."
 - b. Chemical reactions for the preparation of mellitic acid.
3. *Dr. Harold C. Harrison.*
 - a. Cooperative research with Foggart Museum, Harvard University.
 - b. Cooperative research with department of minerology and petrography, Harvard University.
4. *Dr. George R. Griffin.*
 - a. Direction of thesis problem of S. E. Blanchard on "The condensation of formaldehyde and aromatic compounds."
5. *Dr. Douglas L. Kraus.*
 - a. Direction of thesis problem of Frederick Hancock on "The stability of potassium tetraoxide."
6. *Dr. Roland H. Mayor.*
 - a. Studies of the techniques used in radioactive tracer compounds.

Education and Psychology

1. *Dr. Frank M. Pelton.*
 - a. Direction of "Teaching social studies by the utilization of folk material." A graduate thesis by Agnes King.
 - b. In collaboration with Dr. Noble.
 - (1) Direction of "In service training for teachers in South County." A graduate thesis by James A. Whitman.
 - (2) Direction of "All year camping program." A graduate thesis by William H. Morris.

- c. In collaboration with Prof. J. Edward Casey.
 - (1) Direction of "Investigations of teaching of English in the Stonington High School." A graduate thesis by Beatrice Silverstein.
- 2. Dr. Marcus C. S. Noble, Jr.
 - a. Direction of studies of school transportation for the Town of Westerly.

English

- 1. Dr. Lillian D. Bloom.
 - a. In preparation: "T. S. Eliot's Moral Aesthetic."
The Foundations of Poetic Analysis.
An Anthology of a Critical Commentary on Eighteenth-Century Periodical Writing.
- 2. Prof. Jordan D. Fiore.
 - a. In preparation: An annotated edition of *Androboros*, the first play written and printed in America.
- 3. Dr. Paul E. Reynolds.
 - a. Completed for publication: "Katherine Mansfield's *Bliss*: Diversity in Literary Art."
 - b. In preparation:
 - (1) "Coleridge's Year of Decision: 1802."
 - (2) "The Tension-Release Pattern in the Poetry of Coleridge: A Study in Poetic Dynamics."
- 4. Dr. Walter L. Simmons.
 - a. In preparation: An edition of Sir John Hawkins' *Life of Samuel Johnson*, L.L.D. This project will probably require several years for completion.
- 5. Dr. Warren D. D. Smith.
 - a. In preparation:
 - (1) "Cloten with Caius Lucius."
 - (2) "State Business in Shakespeare."
 - (3) "References to Time in Shakespeare."
 - (4) "Elizabethan Awareness of the Aside."
 - (5) "Shakespeare's Localization Dialogue."

Geology and Geography

- 1. Prof. Clarence E. Miller.
 - a. Studies of the behavior of the clay minerals and their related minerals with various stains and aniline dyes.
 - b. Studies of the sediments in the tidal zone and shallow water bottoms of the clam and quahaug areas of Narragansett Bay.
 - c. Studies of several residual clays formed in pegmatite dikes and found in several sites in South County.

History and Political Sciences

- 1. Dr. Daniel H. Thomas.
 - a. Spent July and half of August in research in Paris and London archives on the history of Belgium Neutrality.
- 2. Dr. William A. Itter.
 - a. Continued research on Civil War manpower problems.
- 3. Dr. Donald Tilton.
 - a. Completed the research essential for the review of Kathleen Edwards' "The English Secular Cathedrals in the Middle Ages."
 - b. Conducted research on "The Statute of York of 1322."
- 4. Dr. William D. Metz.
 - a. Continued his studies on local history.
- 5. Prof. John O. Stitely.
 - a. Collected basic material on the Rhode Island General Assembly in preparation for doctor's thesis.
 - b. Signed contract to write the Rhode Island Volume in the American Commonwealth Series on State Governments and Administration.

6. *Mr. Benjamin Nimer.*
 - a. Research on views of Walter Lippman concerning foreign policy of the United States.
 - b. Prepared for Rhode Island Port and Industrial Development Commission "Digest on Laws Pertaining to Industry."
7. *Mr. Jack Crandall.*
 - a. Collaborated with Mr. Nimer in preparation of "Digest of Laws Pertaining to Industry."

Languages

1. *Prof. Raymond P. Maronpot.*
 - a. Completed "An Evaluation of the Training of Teachers of the Modern Foreign Languages in the Public Secondary Schools of Rhode Island."
 - b. Prepared for publication: "A Workbook in French Grammar Units."

Marine Biology

1. *Dr. Charles J. Fish.*
(See: Narragansett Marine Biological Laboratory).

Sociology

1. *Dr. L. Guy Brown.*
 - a. Studies on misconceptions as a basic for cultural conflicts.
 - b. In preparation: Textbook "The Foundations of Sociology."
 - c. In preparation: Textbook "The Foundations of Social Psychology."

Zoology

1. *Dr. Robert W. Harrison.*
 - a. By direction: Graduate thesis, "A study on comparative oxygen consumption in eggs of normal and tumor-bearing strains of *Drosophila*."
2. *Dr. Robert W. Hartung.*
 - a. Studies on factors influencing tumor incidence in *Drosophila*. (Supported in part by a grant of \$600 from the U. S. Public Health Service).
 - b. By direction: Graduate thesis, "Studies on the nature of the tumors produced in *Drosophila*."
3. *Dr. Herbert Knutson.*
 - a. Survey of insect fauna of Rhode Island.
 - b. Studies of *Drosophila* for evaluation of various new insecticides and development of resistance to them.
4. *Dr. Donald J. Zinn.*
 - a. Prepared for publication: "Account of the Penikese Island Memorial Expedition of 1947."
 - b. In preparation: Manuscript of hitherto unknown events in the life of Louis Agassiz.

NOTEWORTHY EVENTS AND ACCOMPLISHMENTS

1. Ground was broken for the new chemistry building with appropriate ceremonies in July, 1949. Work has progressed at varying speeds through the year. The attractive exterior of the building is nearly complete, with the exception of the roof covering. Much work on the interior remains and occupancy with the beginning of the academic year 1950-51 seems improbable.

2. Much time and thought has been given to the development of plans and specifications of the new gymnasium-armory. With these nearly complete, it is hoped that a call for bids can

be made in the near future. Rising costs, uncertainties and fears which have resulted from the trend of events on the national scene give cause for concern as to the likelihood of bids being within the appropriation available.

3. An architect has been retained for developing plans for the remodeling of Ranger Hall. Sketches and a rough estimate of cost were prepared in anticipation of securing an appropriation from the 1950 Session of the Legislature. The failure of the General Assembly to make direct appropriation or to authorize placement of the Ranger Hall remodeling plan among the bond issue referenda to be voted on by the voters of Rhode Island in the fall of 1950 dealt a heavy blow to our planning.

The architect is now developing more complete and detailed plans on which to base a request from the 1951 Session of the General Assembly.

4. The Twelfth Rhode Island High School Model Congress was held on March 4, 1950. Twenty-three high schools sent 88 delegates to participate. Two speech contests were arranged in connection with the Congress. Twenty-two contestants competed in the Original Oratory Contest; nine contestants took part in the Extempore Speaking Contest.

5. The Thirteenth College Model Congress was held on March 17-18, 1950. Seventeen colleges were represented by 80 delegates.

6. The Phi Delta Society has sponsored another Margaret Webster production, *Julius Caesar*, and has produced four plays under the direction of Prof. R. E. Will. These were *Juno and the Paycock*, *Ah Wilderness*, *Uncle Harry* and *Noah*. The casting, staging and acting have in each case been outstanding and evidenced the high quality of training being given. Our dramatic productions merit greater audience support from our college community.

7. The Department of Music sponsored a Sixth Rhode Island State College Music Series with four concerts:

Arthur Rubinstein
Richard Dyer-Bennet
The Trieste Trio
Adele Addison

October 26, 1949
December 6, 1949
March 7, 1950
April 11, 1950

The opening concert with a capacity audience assured the success of the Series. The increase in the number of television

sets on the campus and the mass appeal of TV programs will make student support, and perhaps community support, of future series, more difficult to procure.

8. The Annual Lecture of our honorary history society, Phi Alpha Theta, was given by Mr. John Greene of Newport and was a most interesting and successful event.

9. Our department of military science and tactics enjoyed another year of outstanding accomplishment. Five members of the graduating class received commissions in the regular army. This is the first time that such commissions have been offered at graduation at this college.

The College has been invited to apply for an Engineer ROTC Unit. This is a fine recognition of both our School of Engineering and of our department of military science and tactics. If our application is granted it will broaden the scope of our ROTC program and provide additional military training opportunities in correlation with professional instruction.

10. The department of physical education for men sponsored a swimming program offered by the American Red Cross under the direction of Mr. Carl Slader and conducted in the pool at the Quonset Naval Air Base. Six of our physical education majors who had qualified as water safety instructors in our aquatics course assisted Mr. Slader. The program included both men and women, faculty and students, and ran for 10 weeks from March 1 to May 17th, for two and one-half hours each Wednesday evening. The instruction was conducted on four levels with 196 certificates awarded as follows: Beginning swimmers 31, intermediate 39, senior life-saving 94, instructors 32. We consider this to be significant of student interest and of the need for swimming as an activity and as a skill.

11. Our department of physical education for men sponsored the Forty-first Interscholastic Track Meet on May 20, 1949. Seventeen competing schools provided 472 entries. LaSalle Academy of Providence won again the Class A Championship while Barrington High School repeated in winning the Class B Championship.

12. In our varsity sports program conducted by the department of physical education for men, we enjoyed outstanding success in cross country, being undefeated for the tenth successive year; winning the Yankee Conference Championship

for the third successive time and the New England Intercollegiate Championship for the thirteenth time in the last 16 years. Robert Black won many championships, including the National Intercollegiate Cross Country Championship for the second successive year, and established himself as the greatest distance runner in the history of the College.

In varsity indoor track, our relay team won the Yankee Conference Relay Championship for the second successive year and with the establishment of a new record.

Our varsity outdoor track team lost only to Harvard University for our second dual meet defeat in 15 years.

Rhode Island State served as host to the Third Annual Yankee Conference Track Meet and won the championship for the third successive time.

We finished ninth among 47 colleges and universities competing in the IC4A Track Meet. Both Black and Sherman were selected for the All-American Track Team.

The Track Clinic in track and field techniques, together with treatment of injuries, was held again this year for the benefit of track coaches in the secondary schools of Rhode Island. Ten coaches were in attendance.

In varsity baseball and basketball our teams won the majority of games played. Another excellent intramural program including 11 sports provided a wide variety of activity and extensive competition throughout the year.

13. Our department of physical education for women has provided an excellent intramural program of sports, including field hockey, volleyball and basketball, together with tournaments in badminton and tennis.

In field hockey, we participated in an Intercollegiate Play Day in Boston and played a game with the University of Connecticut on our campus.

We engaged in two Play Days and three individual contests in basketball which included among others, Pembroke, Connecticut College, University of Connecticut, Clark and Wheaton.

14. An excellent May Day Program was held on May 21, under the joint sponsorship of the Women's Athletic Association and the Women's Student Government Association in cooperation with the Patrons Association of Rhode Island State College.

15. The department of zoology has made a particular effort to contact former students whose interests were centered in the subject matter area of this department. Two news letters have been sent to 650 Alumni. The response has been of direct aid in placement of at least 10 of the graduates of 1950.

NARRAGANSETT MARINE LABORATORY

Although seriously handicapped by insufficient personnel, operating funds and winter laboratory facilities, all phases of the three-point program of the Narragansett Marine Laboratory have been expanded during the past year. This has been achieved to a large extent with federal funds, equipment and personnel made available in cooperative programs with the Office of Naval Research, U. S. Fish and Wildlife Service, Woods Hole Oceanographic Institution, Brown University and the Rhode Island State Office of Fish and Game. The major difficulty in such heavy dependence on federal aid for the fulfillment of the laboratory's own program is that such aid is on a year-to-year basis and does not permit long range development planning.

Physical Accommodations

In addition to the laboratory at Saunderstown, which is presently suited to summer activities only, we have utilized space at the State Lobster Hatchery in Wickford which has also served as the operating base for the laboratory vessel, and office space in South Hall and laboratory space in Nissen Hut C-13 on the campus. In anticipation of the possibility of acquiring for permanent laboratory use the stone house at Fort Kearney, temporary repairs have been made in this building to permit occupancy effective June, 1950.

Teaching Program

Both the undergraduate curriculum in ecology and the graduate curriculum in marine biology developed last year have been implemented this year. Undergraduate interest can be expected to develop gradually. The response to the graduate program was immediate and substantial. Referred to elsewhere in this report, the program is making an outstanding contribution in the training of young men for careers in marine biology and oceanography. The cooperation of the Woods Hole Oceano-

graphic Institution has been most effective and we look forward to its continuance.

Research Activities

The laboratory research program has been greatly expanded during the past year with important increases in federal financial assistance and personnel. All research projects are under the direction of Director Fish with the exception of the Applied Fisheries Investigation which is a joint program with the Federal Fish and Wildlife Service.

a. Applied fishery investigation

The Fish and Wildlife Service with a permanent local staff of five and a summer staff of seven has instituted two technological investigations. These are (1) an experimental study designed to show the relative effects upon quahaug beds of mechanical and hand tonging methods of harvesting; and (2) the determination of the optimal fishing intensity. Supplementing this work, the Narragansett Marine Laboratory is conducting long term basic studies on the distribution and production of quahaugs as an index of regional fertility in Rhode Island waters. A population census has been taken by operating a commercial quahaug dredge at approximately 100 stations on a one-mile grid. This survey has yielded valuable information on the numerical strength of size frequencies of the quahaug stocks in different parts of Narragansett Bay, and the data on the distribution and abundance of species which compete with or prey upon the quahaug. The growth and mortality rates of the quahaug in various parts of the Bay are being studied by observing the growth and mortality of individuals of a large range of sizes in boxes planted in a dozen different areas. The ultimate object of these and projected studies is to identify the factors governing the natural production of quahaugs and to establish a basis for intelligent utilization of this important natural resource in Rhode Island waters.

b. Basic research

Three major basic research projects, supported by the Office of Naval Research, are in progress. Two have been assigned by the Woods Hole Oceanographic Institution and the third is being conducted as a joint program with the physics department of Brown University.

The biological aspects of the problem involve a determination of the character of the sound producing apparatus in different local species, controlling factors, seasonal variation and the significance of sound production.

Field work began at Station Baker in Arctic waters and Station Easy in central North Atlantic waters in February, 1950. Continuous weekly observations and collections have been made at each station by designated officers of the U. S. Coast Guard who were previously assigned to the Narragansett Laboratory for training. Collections are shipped to the Laboratory for study.

The research during the first year will have for its objective a determination of: (a) Seasonal variations in the size and composition of the zooplankton populations of the surface zone in two different faunal high seas regions in the North Atlantic; (b) the annual cycle of change in the relative abundance of adults and developmental stages of component species. The observations have been designed to reveal propagation periods, development rates and frequency of replacement during the production season or seasons.

This project is being developed jointly by the Laboratory and Brown University. The objective will be a study of the influence of body size, form, surface texture and composition in scattering sound waves by animals in the sea.

The program of the Narragansett Marine Laboratory is currently making an important contribution to scientific knowledge and to the economic welfare of the State and the

main because of the federal cooperation which the alert Director security of the Nation. The program is made possible in the of the Laboratory and the administration of the College have been able to procure. Grants of funds for research, gifts and loans of scientific equipment, laboratory quarters and other physical facilities have been secured without or with a minimum of expense to the college and State. We shall wish to continue to cooperate with state and federal agencies to the extent of our abilities. Everyone should realize that the nature and scope of research projects supported by federal agencies are subject to definition and control in large degree by the agency providing the funds. Some projects may be of direct application to Rhode Island waters and of immediate importance. Other projects may have little or only remote applications to local problems, yet are of paramount national significance. The most urgent research needs from the standpoint of local waters and the State's economy may receive no attention despite our efforts to secure it.

A comparative study of the marine laboratories of the Universities of Miami, North Carolina and Maryland, among others, indicates the expenditure of much larger state appropriations in support of applied fisheries research. Considering the importance of the marine fishery in Rhode Island and the critical depletion of several of the most important endemic commercial species, it would appear to be sound economy for the State to make a special appropriation annually to support applied fisheries research in Rhode Island waters. It does not seem reasonable to expect the College to support this state-wide service through the Narragansett Marine Laboratory without making special provision for it. We strongly recommend and urge that the Board of Trustees of State Colleges give considered study to this proposal.

GENERAL OUTLOOK WITH SPECIAL REFERENCE TO CURRENT PROBLEMS AND FUTURE NEEDS AND DEVELOPMENTS

The most universal problem of the School of Arts and Sciences is that of space. With the completion of the new chemistry building and the new gymnasium-armory direct relief will be provided for the departments of chemistry, military science and tactics and physical education for men. If the remodeling

of Ranger Hall can follow promptly with reallocation of space the departments of bacteriology, botany, geology and geography, marine biology and zoology will be somewhat adequately cared for. This program, a dozen years in the making, provides more adequate space for only the "science" departments of the School.

The introduction of the liberal studies curriculum and its rapid growth to become the largest in enrollment of any curriculum of the College poses new problems. Forty-two percent of the registration of the School of Arts and Sciences are now in liberal studies. Fifty-seven percent of the freshmen registered in the School are in this curriculum. The School of Arts and Sciences now exceeds all others in total registration. Unless unforeseen developments affect the present trend, it is evident that our greatest need for additional space is going to be with the "arts" departments. The situation of the three large departments housed in Quinn Hall, i.e., education and psychology, English, history and political science, is most acute. The registrations of these departments ranged from 675 to 1347 for the year with a grand total of 2753. It is obvious that these departments cannot agree to any further pressure to yield space and there is no evident possibility for them to acquire any additional facility in this building. It is recognized that this situation creates an obstacle to any further growth of the School of Home Economics. The solution appears to be in the erection of a general classroom and office building at an early date to provide relief in several areas and satisfy the multiple needs for added space in several schools and divisions of the College.

The problems of some specific departments are worthy of mention.

The department of education and psychology has shown a substantial increase in both undergraduate and graduate enrollments. Lack of space has become now a limiting factor and delays desirable academic expansion. The registration in the education courses has greatly increased and the School personnel in this area and through the state are coming in ever increasing numbers with inquiries and problems that demand leadership. Our staff has displayed an eagerness to serve education not only on the campus but throughout the state. The

department has given much thought to the desirability of gathering source material in school curricula, courses of study, methods of instruction and other areas. For this a seminar room, or workshop, is necessary if graduate work in education continues to grow and if we are to provide the professional assistance that school officials are requesting.

Student interest in psychology continues to grow and with it the demand for more courses in this subject. At present our offerings barely satisfy the requirements of a minor in psychology. The majority of students majoring in sociology wish to minor in psychology. Preparation for graduate study in psychology is the objective of a number of students. Likewise, students who abandon the objective of medical school frequently enter some allied field involving graduate study and professional training in psychology. We need to provide more adequately for these students.

Requests for larger opportunities in music and in physical education for women are coming with increasing frequency from those desiring to prepare for the teaching profession.

The department of English has recorded a marked growth in the popularity of speech courses with a resultant heavy teaching load which has been satisfied at the expense of omitting some of the advanced courses in literature. We have displayed little enthusiasm for the creation of new administrative units as departments of instruction. However, it is our considered judgment that for the benefit of both speech and of literature, we should give serious consideration to the creation of a department of speech and dramatics in the near future.

The demand for increased offerings in journalism continues. We believe there is a still greater latent interest in journalism. We have given considerable study to our journalism courses during the year and while the present number of courses is not greater than in 1942 we have revised substantially the content and the objectives of the courses. All courses listed in the catalog are being given, but we reaffirm our recommendation of a former report to the effect that we should add to these promptly and conservatively to meet the requirements of a minor in journalism.

The department of history and political science has outlined proposals for the establishment of options and for the

offering of a larger number of advanced courses in political science. A plan for expansion of the "internship in government" for the best students interested in government has been submitted. The suggestion of participating with other "arts departments" in the establishment of certain "civilization" majors has been made. While the immediate implementation of these proposals is not possible, they are mentioned in evidence of the conscious desire of a representative and forward-looking department to better serve the needs of modern society.

Nearly every department of the School has proposals for new courses to be offered. To some this may be evidence of an ambitious desire to grow in size only. In every case, we are convinced it is a desire to serve the student and the public more effectively. Noteworthy, rather than commonplace, are proposals for field courses in Rhode Island flora, a course dealing with the geology of Rhode Island, a course in the identification of our native and immigrant birds, a course in nature study and a course on the history of Rhode Island. Since all but one of these proposals were made by faculty members who claim neither Rhode Island nor New England as their nativity, they are not evidence of geographically limited horizons but rather expressions of appreciation of a rich heritage to be brought to the attention of our youth.

It is our sincere belief that the School of Arts and Sciences has made substantial academic progress during the year and has advanced the College along the highroad toward university status. We acknowledge our grateful appreciation of the spirit of loyalty and cooperation that has been displayed by the staff and the assistance accorded us by the administration. We conclude with the words of a staff member who observed recently the progress of his department and of the College as a whole, saying "It is a pleasure to work in organizations that strive for improvement, and it is most gratifying to have as colleagues and administrative superiors men whose vision of things as they might be provides constant pressure for betterment."

HAROLD W. BROWNING, *Dean*

School of Business Administration

AN enrollment of about 600 students in the School of Business Administration during the past year reflects the continued demand in this area of study and also indicates the heavy demand made upon our instructional facilities and upon the physical plant.

The largest number of students in the School's existence, approximately 200, was graduated in June, 1950. We can probably expect another large enrollment in the coming year, barring, of course, a national emergency.

The School suffered a severe loss by the death of Miss Mabel E. Dickson on November 15, 1949. Miss Dickson had faithfully served the college since 1929, and at the time of her death was professor of business administration and head of the industrial management department. The keen interest and wise counsel which characterized her work will be greatly missed by the members of the School.

In accordance with suggestions made by the College committee on educational standards and instructional procedures, the faculty spent considerable time studying the content of courses offered by the School. This objective was accomplished not only by an increase in the number of departmental meetings but also by frequent meetings of instructors offering the same course of study.

Faculty members continued to show their interest in professional organizations by frequent attendance at the meetings of the various organizations. This interest existed at all three levels of activity — local, state, and national.

RESEARCH ACTIVITIES

Mr. Robert Grant Cook, a graduate student, is conducting a study on economic factors affecting plant location in New England under the direction of Prof. Robert Rockafellow and Dean G. A. Ballentine.

Prof. Bernard Schurman is engaged in research work for his doctoral dissertation on an evaluation of the National Resources Planning Board. A considerable portion of the material he has reviewed is a part of the private correspondence of the late President Roosevelt with members of the board.

STUDENT ORGANIZATIONS

The faculty has been gratified by the enthusiasm and interest of the students in the three organizations of the school. Several seniors in the Alpha Delta Sigma Advertising Society have won recognition for achievements in the advertising field.

Lionel Brown won a \$25 savings bond and a certificate of special merit in a contest sponsored by the Federal Advertising Agency, Inc., of New York in behalf of the American Safety Razor Corporation.

William Kelly was awarded honorable mention in the second annual Robert J. Murray Memorial Advertising Contest sponsored by the Babson Institute of Business Administration.

Richard Campbell was invited by the Advertising Men's Association of New York to participate in a week of meetings and visits to prominent New York advertising organizations.

Barkev Kibarian won the first annual award of a scholarship of \$750 offered by the national organization of Alpha Delta Sigma to help finance a year of graduate study in the field of advertising.

The Society for the Advancement of Management initiated a "Career Conference Program" during the spring semester. A series of two meetings was held. Representatives of Rhode Island industry participated in the first meeting. The second meeting was lead by Dr. Ewan Clague, commissioner, Bureau of Labor Statistics, United States Department of Labor. In these meetings, emphasis was placed on the problems of senior students.

During the coming year, it is planned to increase the scope of the "Career Conference Program" and it is expected that more emphasis will be placed on the problems of freshmen and sophomores. The Society's objective is to make a distinct contribution to the many services offered to students by the College.

The Accounting Association secured six off-campus speakers for its meetings and also devoted considerable attention to the problem of securing awards to be presented to students for outstanding scholarship in accounting.

INSTRUCTIONAL PROCEDURES

The School was very fortunate during the year in its efforts

to secure a closer link between theory and practice; between the classroom and the business enterprise. The accounting department, with the generous cooperation of the National Cash Register Company, offered a special series of lectures and demonstrations on the use of accounting machines.

The industrial management department not only secured industrial representatives to lecture on the campus, but also benefited by discussions in various industrial plants. Companies who were especially cooperative during the past year were:

Cottrell & Sons
Brown & Sharpe Mfg. Co.
Providence Journal Co.
Bostitch, Inc.
Ford Motor Co.

Pt. Judith Fisherman's Cooperative
Narragansett Brewery, Inc.
Gorham Mfg. Company
Textron, Inc.
Armour & Co.

Administrative offices of the College functioned as laboratories for our students in secretarial studies. Many favorable comments have been received since this plan was inaugurated two years ago.

The accounting department introduced the tests developed by the American Institute of Accountants. These tests are designed to discover aptitude for the subject and also to measure the achievement of the students. Because the tests are utilized by many colleges scattered throughout the country, the School is hoping to use the results of the tests for the purpose of strengthening instructional procedures.

FUTURE NEEDS

The School continues to suffer from the decentralization of its activities and its staff. Office space is limited or inadequate, with the result that individual student-faculty conferences cannot be held with the desired degree of effectiveness. Faculty members do not have sufficient space to permit them to take care of teaching materials or to permit space for bookshelves.

The accounting department suffers not only because of space limitations but also because of inadequate lighting. The same difficulties confront the teachers of secretarial studies. Increased space would permit the marketing and advertising department to do more effective teaching in layout and other phases of creative advertising.

GEORGE A. BALLENTINE, *Dean*

The Division of Nursing

ONE of the things which is interesting and stimulating about a new program is the fact that plans and policies must be developed and considered to meet situations occurring for the first time. The year 1950 marks the fifth year of the program and the completion of the total curriculum cycle, thus making it a year of "firsts."

INTERIM CLASSIFICATION

About the time college opened last fall, a report from the National Committee for Improvement of Nursing Services was received relative to a nation-wide survey of nursing schools in which we had participated in the spring. We were gratified indeed to read:

"The analysis of the 1949 school data indicates that your program is among the top 25 percent of the nation's basic programs in nursing. Your school has been placed in Group I of the 1949 Interim Classification of Institutions offering Basic Programs in Nursing."

Since this survey represents a very important first step in the evaluation of nursing schools, we were gratified to receive Group I classification. Every effort was made to use objective information on measurable aspects of basic programs. The component factors rated were: student health, curriculum, clinical facilities and experience, library facilities, qualifications and size of teaching staff, and instructional salaries.

One of the major functions of such a survey is to show schools their strengths and weaknesses and to stimulate improvement. We must remember that this was only a "paper" survey and while we hope our rating indicates that we are developing along sound lines we must continue to look forward to the much more thorough evaluation of our program under the direction of the National Nursing Accrediting Service in the not too distant future.

This year we have had more applications for admission than in any previous year. The quality, on the whole, also seems to be improving. The quota for the Division of Nursing for the fall of 1950 has been raised from 15 to 20. Qualified applicants are now in excess of this quota and indications are

that we will be able to increase our enrollment as fast as larger quotas may be allowed. According to national statistics, nursing is one of the few fields where a shortage exists — and this demand for nursing service will probably continue to rise. In view of these facts, it would seem that continued and increasing provision for the type of professional preparation which Rhode Island State College is able to offer would be necessary.

A sophomore student transferred to another curriculum. One special student completed the requirements, and a part-time graduate student withdrew because of health reasons.

ENROLLMENT

SEPTEMBER, 1949		FEBRUARY, 1950	
Seniors, Group I.....	9	Seniors, Group I.....	9
Seniors, Group II	5	Seniors, Group II	5
Juniors	8	Juniors	8
Sophomores	13	Sophomores	12
Freshmen	14	Freshmen	14
Special Students	3	Special Students	2
Graduate Nurses	4	Graduate Nurses	3
Basic	52	Basic	50
Graduates	4	Graduates	3
	—		—
Total	56	Total	53

CURRICULUM DEVELOPMENT

One minor change has been made in the college portion of the curriculum. A course dealing with human relations has been put in the first semester of the freshman year, instead of the second, and the physics course has been transferred from the first to the second semester.

When the senior group returns to the campus next spring, the new course, Nursing 22—Senior Conference, will be given for the first time. We hope that one unit of this will be in the nature of a science seminar with the discussion centered around actual patient situations which students have experienced during the clinical period. A second unit will be directed toward “an appreciation of the social, economic, and political factors which develop a desirable pattern of living together in a community,” particularly as they are pertinent to members of the nursing profession.

At the advisory committee meeting in October, approval was given for reducing the clinical part of the program from 30 to 28 months. On January 11, 1950, the State Committee on Nursing Education also gave its approval. This is in line with

the tendency to build nursing programs leading to a degree within a period of four calendar years. However, care must be taken to see that shortening does not mean weakening the program. Ways to give it depth and enrichment must constantly be sought and students must be given time to acquire both general and professional knowledge as well as certain attitudes, insights, and standards, which are needed today.

AFFILIATIONS

For the first time since the program started, students have been assigned during the past year to all of the affiliations for clinical experience. This means that there have been groups, at the same time, in five different places. Since good guidance means that we should keep in contact with students at all times, an effort has been made to visit each affiliation often enough to assure the students of our interest in them even when away from the college. Student reports from all affiliations have been good and some indicate a gratifying adjustment to varied experience and larger responsibility.

STUDENT ORGANIZATIONS

Since the students themselves began to feel the need for some unifying group and because a means of communication and contact seemed essential as the number of students became larger, the Division of Nursing has formed a professional campus organization called "The Nutrix." (This is an old Latin form for "nurse."). The purposes are:

1. To provide opportunities through meetings and activities for closer acquaintance of all students in the Division of Nursing, both during the college and clinical periods.
2. To provide for the initiation of activities which will give the students a growing realization of belonging to the profession of nursing and an opportunity to develop both personally and professionally.
3. To keep all students informed about activities and developments related to the Division of Nursing and the profession of nursing.

One of the activities of the organization will be the issuing of a mimeographed news sheet called "Here and There." This

will be especially useful for keeping students away on affiliation in touch with each other and the College.

CAPPING CEREMONY

On January 5, 1950, the first capping ceremony to take place on the College campus was held, and for the first time the students wore the newly adopted blue uniform with the College seal and the cap designed by our twin sister students. Eight juniors were capped for the first time and 14 seniors were given the new cap. The ceremony was held in Edwards Hall and we were fortunate in having Miss Elizabeth S. Bixler, Dean of the Yale School of Nursing, as speaker. Many who saw a capping ceremony for the first time were impressed by its uniqueness and significance.

FIRST CLASS GRADUATES

On June 12, 1950, the first 12 students from the Division of Nursing received the Bachelor of Science degree. Three of these were students who took a special program and had recently received diplomas from Roger Williams General Hospital. The other nine completed the first regular curriculum of the Division.

The clinical part of their program was completed May 22; on Sunday, May 21, parents, special guests, and students in the Division gathered in Eleanor Roosevelt Hall to congratulate them as they wore, for the first time, the uniform of a graduate nurse complete with velvet band of College blue on their caps. Appropriate remarks were made by Pres. Woodward and the Director of the Division at simple exercises in connection with presentation of the pins. The pin adopted for the Division of Nursing is a Greek cross with the College seal superimposed upon it and surrounded by a laurel wreath. It seems to be symbolic of the three phases of nursing — the spirit of nursing, the science of nursing, and the art of nursing. These students were pioneers and for almost five years had worked to achieve this goal. We are proud of them and on Homecoming Day this fall we look forward to welcoming them back as our first alumnae.

STATE BOARD EXAMINATIONS

This same group of students was the first to take State Board Examinations and to become our first Registered Nurses.

The results of these examinations, which are prepared and scored by the Department of Measurement and Educational Guidance of the National League of Nursing Education, were very creditable.

All the graduates have secured positions in the field of their choice and are happily gaining new experiences in them.

STATE DIRECTOR OF NURSING EDUCATION

In February, 1950, Miss Margaret C. Kelleher, formerly Associate Director at Butler Hospital School of Psychiatric Nursing, assumed the position of State Director of Nursing Education. Since Miss Kelleher is the first full-time appointment to this position, it has real significance for the future of nursing in our state. She has called meetings of all directors of schools of nursing in Rhode Island for the discussion of cooperative arrangements for affiliations, more consistent curriculum practices, and other related matters. Planning on a state-wide basis such as this has been suggested as a constructive approach to many nursing problems by the National Committee for the Improvement of Nursing Services.

APPOINTMENT OF AN ASSISTANT

The appointment of an assistant to the director is probably the most important development of the year. Miss Beverly M. Smith, a graduate of Roger Williams General Hospital in 1940 and of Rhode Island State College in 1948, has been appointed as instructor and will assume her duties in September. Since part of her work will be coordination of the program, it seems very fortunate that her preparation includes periods at both the College and the hospital where the students receive the larger block of their clinical experience. The appointment of Miss Smith will make broader development of the program and closer relationships with the students during the clinical period possible.

NEEDS OF THE DIVISION

Scholarship aid for well-qualified students is very much needed. Each year we lose desirable applicants who are unable to meet the financial demands of a college course. Several enrolled students are also in need of assistance. Willingness to

work is not the answer since job opportunities are not available in sufficient number. A concern has been expressed by students in the Division to do something about this and possible plans for their participation in a fund-raising project are being considered.

Larger office quarters are also urgently needed. The present office is conveniently and pleasantly located, but it is not large enough to provide for interviews, conferences, and other types of student contacts demanded by progressive educational trends.

CONCLUSION

In the coming year we will continue to strive to develop a program which will not only prepare young women to take their places in the community as efficient professional nurses, but which will assist them to build integrated lives satisfying to themselves and useful to their fellows.

LOUISA WHITE, *Director*

The Division of Graduate Studies

FOUR new departments were approved during the past year for major graduate programs, bringing the total to 24. The new departments are poultry husbandry and civil, electrical and mechanical engineering. The enrollment of degree candidates and special graduate students has increased.

Graduate course numbering has been improved. New forms have been implemented and the catalog description of the Graduate Division has been revised. A new pamphlet, "A Statement of Policies of the Graduate Division," has been issued and sent to all interested personnel. The "Pamphlet on Thesis Writing" has been revised.

Ten graduate scholarships have been set up for 1950-51. More graduate assistantships and industrial fellowships are needed.

ENROLLMENT

The number of inquiries received concerning our graduate offerings continues to grow. The general announcement of financial aids available is partially responsible. The enrollment of degree candidates has increased markedly, as shown by the following figures. Those in Education are particularly noteworthy. The fact that the number of departments having graduate students increased from 10 to 16 is also of significance.

	1948-49		1949-50	
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.
Agricultural Chemistry	0	0	1	1
Agricultural Economics	0	2	2	1
Agronomy	2	2	3	3
Animal Husbandry	2	2	2	2
Bacteriology	2	2	3	3
Botany	4	4	5	5
Chemical Engineering	3	3	3	3
Chemistry	7	6	6	6
Child Development and Family Relations.....	0	0	1	1
Education	8	10	15	17
History	0	0	1	2
Horticulture	0	0	1	1
Industrial Management	0	0	1	1
Marine Biology	0	0	7	7
Physics	6	6	5	5
Zoology	3	2	4	2
Totals.....	37	39	60	60

OUTLOOK

The duties of the Director increase as the Division grows. Administration of the Division is rapidly becoming much too big a job to be merely added responsibility for a member of the academic staff.

The time has come to begin plans for meeting the non-academic problems of our graduate students. Such matters as living accommodations for both married and unmarried students, a graduate commuters' room, athletic tickets, graduate teas and the like will become increasingly pressing.

With the increase in registration of students in the humanities and the offering of the Liberal Arts degree, it is pertinent to study plans for offering the Master of Arts degree. Present administrative machinery is adequate for supervision of work for this degree. It would also be well to work out long range plans for offering the doctorate.

The fine cooperation of faculty and staff have made the past year one of progress and pleasure. I wish to express my gratitude to the members of the committee on graduate studies for their lively interest and considered opinions. Finally, I wish to express my gratitude to Dr. Frank M. Pelton for his willingness to assume responsibility for the Division during my sabbatical leave.

VERNON I. CHEADLE, *Director*

Division of General College Extension

THE Division of General College Extension continued its growth and expansion in its seventh year of educational service to the people of Rhode Island. Total course enrollments amounted to 3,562 compared with 3,007 during the previous year.

The courses which were conducted in the categories of Arts and Sciences, Business Administration and Engineering constitute a direct extension of the resident instruction of the campus schools. All the other programs were initiated in extension and were designed to serve specific educational requirements of professional and occupational groups. All extension courses, credit and non-credit, have the approval of the faculty through the department heads of the various subject matter departments and the deans of the respective schools.

EVENING COURSES IN ARTS AND SCIENCES

Credit courses were offered in English, sociology, psychology and education for qualified students. These courses were conducted by regular members of the College faculty and were available to the general public. A large number of nurses were enrolled, due to the activity of the Rhode Island League of Nursing Education and the State Organization of Public Health Nursing.

EVENING COURSES IN BUSINESS ADMINISTRATION

Accounting, economics, finance, industrial management, industrial safety, and marketing and advertising courses were offered to serve a continuing need in the community. The Division again cooperated with professional and civic organizations by offering educational services to the Rhode Island Bar Association and the Retail Trade Board of the Providence Chamber of Commerce.

INSURANCE

The insurance education program established a new record of enrollment with a total of 412 students registered in 17

courses. Mr. Stephen W. Carey, 3rd, president of the Providence Washington Insurance Co., continued his custom of providing the Providence Washington fund for awards to the best student in each insurance course. During the year the fund amounted to \$400.

REAL ESTATE

Although the tremendous volume of home building in Rhode Island has lessened the acuteness of the housing shortage, the real estate program attracted a total enrollment of 196, registered in a total of eight courses. The Providence Real Estate Board and the Home Builders Association of Rhode Island continued to cooperate with the Division in arranging the real estate courses.

GRADUATE COURSES

A graduate course in methods of teaching home economics was conducted during the spring semester by Professor Arline P. Tilton. This course carried graduate credit for qualified candidates toward a Master of Science degree in education. The policy of the Division is to establish graduate courses upon request and in cooperation with the Director of Graduate Studies.

EVENING COURSES IN ENGINEERING

College algebra, trigonometry, time study, general metallurgy, electricity, plastics, and rubber compounding were among the credit and non-credit Engineering courses which the Division conducted during the year. The lack of adequate laboratory facilities limits the offering of engineering courses to mathematics and other lecture courses.

NON-CREDIT TECHNICAL COURSES

In response to the needs of a rapidly expanding industry, a course in theory of television and television receiver servicing was offered during the spring semester. This course attracted a total enrollment of 107 persons and was divided into three sections meeting on Tuesday, Wednesday, and Thursday evenings.

At the request of the Rhode Island Restaurant Association, four courses were conducted in the field of restaurant manage-

ment for the benefit of restaurant owners, operators and employees.

The conclusion of the spring semester marked the half-way point in the 4-year tool design program, which is being conducted in cooperation with the Rhode Island chapter, American Society of Tool Engineers. Thirty-one students continued active in this program. Classes meet two evenings each week and a Certificate in Tool Design will be awarded to each successful candidate.

WORKERS EDUCATION

The workers education program increased from a total of 244 in 1948-49 to 449 in 1949-50. Programs were arranged for the Retail, Wholesale, and Department Store Union; United Rubber, Cork, Linoleum and Plastic Workers of America; South County Joint Board, Textile Workers Union of America; Northern Rhode Island Joint Board, Textile Workers Union of America; and the Amalgamated Clothing Workers of America, all affiliated with the Congress of Industrial Organizations; International Brotherhood of Electrical Workers; International Jewelry Workers of America, affiliates of the American Federation of Labor; and the Brotherhood of Utility Workers of New England, Inc., New England Council.

INDUSTRIAL TRAINING SERVICE

In an effort to extend the service of Rhode Island State College directly to industrial and mercantile establishments, industrial training service courses were conducted on the premises of the following companies: The Rhode Island Co-operative, Inc.; Hassenfeld Brothers; Sidney Blumenthal & Company; and Collyer Insulated Wire Company. Special courses in communism, the United Nations, atomic energy and techniques of propaganda were arranged for the benefit of the members of the Volunteer Air Reserve.

INSTITUTES AND CONFERENCES

Sales Congress in Life Insurance

On October 12, 1949, the Fifth Annual Sales Congress in Life Insurance was conducted on the campus at the request of the Rhode Island State Association of Life Underwriters. The program of lectures on subjects related to life insurance was

held at Quinn Hall and luncheon was served at the College Cafeteria in Lippitt Hall. Eighty-five persons attended the Sales Congress.

Executive Management Institute

The Fifth Institute on Personnel and Industrial Relations was conducted on November 3, 1949, at the Metacomet Golf Club, East Providence. One hundred five persons attended and heard a very interesting panel discussion on personnel and productivity, special lectures on modern personnel services, and the principal address "Industrial Leadership in These Times" by Mr. Thomas O. Armstrong, Director of Plant Labor Relations at the Westinghouse Electric Corporation, Pittsburgh, Frederick S. Blackall, President and Treasurer of Taft-Peirce Manufacturing Company, Woonsocket, served as toastmaster and chairman of the evening meeting.

Institute on Federal Taxation

The Division presented the Eighth Annual Tax Institute on the evenings of October 24, 26, 28, 31 and November 2, 1949, at the Sheraton Biltmore Hotel. Two hundred sixty-one accountants, lawyers, executives of industrial business organizations and others professionally concerned with problems of federal taxation attended the evening sessions. J. Stanley Halperin of New York again served as chairman of the advisory planning committee, highlighting the institute with his lecture on charitable foundations.

Steelworkers Institute

As a service of the workers education program the Division held an institute for the United Steelworkers of America, C.I.O., on the campus July 29-31, 1949. Ninety members of the United Steelworkers of America were in attendance. Class sessions were conducted in human relations, communications and discussion techniques, labor legislation and political action.

ACADEMIC STANDARDS

In order to maintain the same academic standards for extension courses as campus offerings, the Division has continued its policy of making every effort to assign members of the resident faculty to extension courses. All faculty members are assigned by the academic deans upon the recommendation of the respective department heads.

COOPERATING ORGANIZATIONS

The following business, professional, and labor organizations cooperated with the Division during the year:

Accounting

The National Association of Cost Accountants, Providence chapter
The Rhode Island Society of Certified Public Accountants

Business

Providence Real Estate Board
The Home Builders Association of Rhode Island
Retail Trade Board of Providence Chamber of Commerce

Engineering

Rhode Island chapter, American Society of Tool Engineers
Rhode Island State Division of Industrial Inspection
American Electroplaters' Society—Providence-Attleboro branch
The Society of Plastic Engineers
The Rhode Island Rubber Club

Insurance

Rhode Island State Department of Insurance
Rhode Island Association of Insurance Agents
Rhode Island State Association of Life Underwriters
Providence chapter, Chartered Life Underwriters' Association
Rhode Island Division of Workmen's Compensation

Labor

Rhode Island Department of Labor
Rhode Island state branch, American Federation of Labor
Rhode Island council, Congress of Industrial Organizations
Railroad Brotherhoods
Industrial Trades Union
International Association of Machinists
Brotherhood of Utility Workers of New England, Inc.

Management

National Metal Trades Association
Associated Industries of Rhode Island
Taft-Peirce Manufacturing Company
Rhode Island Restaurant Association
Providence chapter, National Office Management Association
Rhode Island Cooperative, Inc.
Sidney Blumenthal & Company
Collyer Insulated Wire Company

Professional

The Council of Education in Rhode Island
The Rhode Island Bar Association

Nursing

Rhode Island League of Nursing Education
State Organization of Public Health Nursing

State and Civic

Rhode Island State Department of Health
Providence Chamber of Commerce
Woonsocket Chamber of Commerce
Pawtucket Chamber of Commerce
Newport Chamber of Commerce
Westerly Chamber of Commerce
Providence Fire Department

JOHN R. HACKETT, *Director*

Summary—General Extension Program

<i>Program</i>	—First Semester—			—Second Semester—			<i>Total</i>
	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
General Evening Extension Courses....	723	133	856	789	186	975	1831
Workers Education	210	35	245	141	63	204	449
In-Service Courses	187	8	195	49	0	49	244
Institutes and Congresses.....	512	34	546	.....	.....	.....	546
Visual Education Services.....	148	35	183	219	90	309	492
Totals	1780	245	2025	1198	339	1537	3562

Enrollment Summary, 1949-50 Fall Semester

EXTENSION COURSES

<i>Course</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Administrative Practices (Ind. E33).....	10	2	12
Advanced Time Study.....	16	0	16
Automobile Insurance (Ins. E22).....	21	7	28
Business Law I (Law E10).....	17	0	17
Casualty Insurance (Ins. E30 A).....	18	8	26
College Algebra (Math. E9).....	17	1	18
Cost Accounting (Acct. E32 A).....	11	2	13
Differential Calculus (Math. E12).....	14	0	14
Economic Principles (Econ. E25).....	13	0	13
Electricity AC I.....	20	1	21
Electricity DC I.....	19	0	19
Elementary Accounting (Acct. E10).....	13	4	17
Elementary Electronics I.....	12	0	12
English Composition (Eng. E1).....	16	11	27
Fire Insurance (Ins. E21A) I.....	21	7	28
Fire Insurance (Ins. E21B) II.....	7	3	10
General Principles of Insurance (Ins. E20).....	48	8	56
General Psychology (Psy. E1).....	21	3	24
Inland Marine Insurance (Ins. E31 A).....	12	11	23
Introduction to Electroplating I.....	15	0	15
Introduction to Electroplating II.....	16	0	16
Introductory General Sociology (Soc. E1).....	0	13	13
Life Insurance C. L. U. "A".....	30	0	30
Life Insurance C. L. U. "D".....	13	0	13
Organization & Management E20.....	14	2	16
Organization & Management E21.....	12	0	12
Plastic Products & Manufacture.....	17	0	17
Principles of Retail Store Management (M&A E35).....	29	24	53
Public Speaking (Eng. E2).....	16	4	20
Real Estate Financing (RE E30).....	15	0	15
Real Estate Fundamentals (RE E20)	35	11	46
Restaurant Management	16	7	23
Rubber Compounding	47	0	47
Salesmanship (M&A E22A).....	11	0	11
Tool Design (Descriptive Geometry).....	43	0	43
Tool Design (Applied Mechanics).....	45	0	45
Urban Land Economics (RE E40).....	13	1	14
Workmen's Compensation	10	3	13
Totals	723	133	856

IN-SERVICE COURSES

Consumer Education (Rhode Island Co-Operative, Inc.)....	15	5	20
Industrial Relations for Supervisors & Foremen (Hassenfeld)	27	3	30
Industrial Relations for Supervisors & Foremen (Blumenthal)	28	0	28
Communism, United Nations & Atomic Energy (Volunteer Air Res.)	40	0	40
Industrial Relations for Supervisors & Foremen (Collier Ins.)	42	0	42
Life Insurance L. U. T. C. (Life Underwriters Training Council)	35	0	35
Net Total	910	141	1051

WORKERS' EDUCATION COURSES

<i>Course</i>	<i>Union</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Principles of Stewardship....	International Jewelry Workers of America, A. F. of L., Local 18	22	7	29
Methods of Handling Grievances	Brotherhood of Utility Workers of N. E. Inc., New England Council	58	0	58
Current Events	Northern R. I. Joint Board T.W.U.A.-C.I.O.	45	9	54
Time Study	International Brotherhood of Electrical Workers, A. F. of L.	21	4	25
History of Labor Organizations	Brotherhood of Utility Workers of N. E.....	19	1	20
Current Events	South County Joint Board T.W.U.A.-C.I.O.	35	10	45
Methods of Handling Grievances	Amalgamated Clothing Workers of America, C.I.O.....	10	4	14
Totals		210	35	245

INSTITUTES AND CONFERENCES

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Fifth Annual Sales Congress in Life Insurance, October 12, 1949	81	4	85
Fifth Annual Personnel Institute, November 3, 1949.....	107	3	110
Eighth Annual Institute on Federal Taxation, October 24, 26, 28, 31 & November 2, 1949.....	246	15	261
First Annual Institute for District I, United Steel Workers of America, C.I.O., July 29, 30, 31, 1949.....	78	12	90
Totals	512	34	546

VISUAL EDUCATION SERVICES

	<i>Men</i>	<i>Women</i>	<i>Total</i>
"Textiles Unlimited"—South County Joint Board, Textile Workers Union of America, C.I.O.....	31	16	47
"Good Things Happen Over Coffee"—South County Joint Board, Textile Workers Union of America, C.I.O.....	34	12	46
"Steel, Man's Servant"—United Steelworkers of America, C.I.O.	83	7	90
Totals	148	35	183

Spring Semester

EXTENSION COURSES

<i>Course</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Applied Electroplating	18	0	18
Appraisal Residential Property.....	20	1	21
Automobile Insurance	25	1	26
Casualty Insurance	18	4	22
College Algebra	19	2	21
Cost Accounting E32B.....	8	2	10
Educational Psychology	4	10	14
Electricity AC I.....	13	0	13
Electricity DC I.....	14	0	14
Electroplating Laboratory.....	19	0	19
Elementary Accounting E10.....	15	2	17
Elementary Accounting E11.....	11	1	12
Elementary Electronics	14	0	14
English Composition	17	13	30
Fire Insurance I (Providence).....	24	5	29
Fire Insurance I (Westerly).....	7	5	12
Fire Insurance II (Newport).....	12	4	16
General Metallurgy	14	0	14
General Principles of Insurance.....	39	3	42
General Psychology	8	12	20
Introductory General Sociology.....	1	11	12
Investment Securities	13	1	14
Life Insurance C. L. U. "A".....	24	0	24
Life Insurance C. L. U. "D".....	14	0	14
Literature & Composition.....	5	3	8
Methods of Teaching Home Economics.....	0	20	20
Organization & Management E20.....	21	0	21
Organization & Management E21.....	16	1	17
Pre-Engineering Mathematics I.....	17	1	18
Principles of Advertising	7	3	10
Principles of Retail Store Management.....	16	6	22
Public Speaking	8	4	12
Real Estate Fundamentals.....	27	7	34
Real Estate Practice.....	30	7	37
Residential Cost Estimating.....	14	0	14
Residential Construction	13	2	15
Restaurant Management	18	9	27
Salesmanship	15	0	15
Sociology of the Family.....	5	21	26
Theory of Television & TV Rec. Serv'g (Tuesday).....	36	0	36
Theory of Television & TV Rec. Serv'g (Wednesday).....	31	0	31
Theory of Television & TV Rec. Serv'g (Thursday)	40	0	40
Time Study	20	0	20
Tool Design (Mathematics).....	31	0	31
Tool Design (Principles of Tool Design).....	29	0	29
Trigonometry	19	1	20
Waitress Training (2).....	0	24	24
Totals	789	186	975

IN-SERVICE COURSES

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Techniques of Propaganda (Volunteer Air Reserve).....	20	0	20
Life Insurance L. U. T. C. (Life Underwriters Training Council)	29	0	29
Net Totals	838	186	1024

VISUAL EDUCATION SERVICES

	<i>Men</i>	<i>Women</i>	<i>Total</i>
"This is Nylon"—Northern Rhode Island Joint Board, Textile Workers of America, C.I.O.....	37	15	52
"Romance of Rayon"—South County Joint Board, Textile Workers of America, C.I.O.....	30	22	52
"This is Nylon"—South County Joint Board, Textile Workers of America, C.I.O.....	41	17	58
"Public Relations"—Amalgamated Clothing Workers of America, C.I.O.	52	23	75
"This is Nylon"—Amalgamated Clothing Workers of America, C.I.O.	12	6	18
"Public Relations"—State, County and Municipal Employees, A. F. of L.....	47	7	54
Totals	219	90	309

WORKERS' EDUCATION COURSES

<i>Course</i>	<i>Union</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Current Events	Retail, Wholesale and Department Store Union, C.I.O.....	13	21	34
Labor Legislation	United Rubber, Cork, Linoleum and Plastic Workers of America, C.I.O.	11	7	18
Time Study	International Brotherhood of Electrical Workers, A. F. of L.	12	1	13
Grievance Procedure	United Rubber, Cork, Linoleum and Plastic Workers of America, C.I.O.	28	3	31
Principles of Unionism.....	Brotherhood of Utility Workers of New England.....	42	4	46
Time Study	International Brotherhood of Electrical Workers, A. F. of L.	2	13	15
Current Events	South County Joint Board, T.W.U.A.-C.I.O.	33	14	47
Totals		141	63	204

Staff Changes

Appointments

- Mr. Henry Anderson, Instructor in Industrial Management, July 1, 1949. B.A., University of London, 1939; M.B.A., Columbia University, 1948.
- Sergeant Roy C. Corbett, Assistant to the Professor of Military Science and Tactics, July 1, 1949.
- Miss Barbara Kyle, Secretary to the President, July 1, 1949. B.A., Mount Holyoke College, 1933.
- Mr. Charles B. Clarke, Instructor in Civil Engineering, July 1, 1949. B.S. (Civil Engineering), Rhode Island State College, 1940; M.S. (Civil Engineering), University of Illinois, 1947.
- Mr. Clarence E. Miller, Assistant Professor of Geology and Geography, July 1, 1949. B.S., University of North Carolina, 1926.
- Dr. Leo Diesendruck, Instructor in Physics, July 1, 1949. B.A., University of Cincinnati, 1941; Ph.D., Johns Hopkins University, 1950.
- Mrs. Matene Rachotes Cain, Instructor in Art, July 1, 1949. Massachusetts Normal Art School, 1947; Boston Museum School of Fine Arts, 1929; Child-Walker School of Fine Arts, 1932.
- Miss Virginia V. Carpenter, Instructor in Textiles and Clothing, July 1, 1949. A.B., Fairmont (W. Va.) State College, 1941; M.S., Cornell University, 1948.
- Mr. Frederick Clayton, Instructor in English, July 1, 1949. A.B., University of Minnesota, 1924; M.A., Columbia University, 1949.
- Mr. Harper W. Moulton, Instructor in Industrial Management, July 1, 1949. B.S., Yale University, 1949.
- Mr. William G. Mundy, Assistant Professor of Insurance, July 1, 1949. LL.B., Dickinson Law School, Carlisle, Pa., 1928; A.B., LaSalle College, Philadelphia, 1926.
- Mr. Frank N. VanBuren, Instructor in Music, July 1, 1949. B.S., Potsdam State Teachers College, 1947; M.A., New York University, School of Education, 1948.
- Dr. David M. Pratt, Assistant Professor of Marine Biology, July 1, 1949. B.A., Williams College, 1939; M.A., Harvard University, 1941; Ph.D., Ibid., 1943.
- Mr. Vito A. Nacci, Instructor in Civil Engineering, July 1, 1949. B.S., Rhode Island State College, 1948; M.S., Harvard Graduate School, 1949.
- Mr. Frederick L. Test, Instructor in Mechanical Engineering, July 1, 1949. B.S., Massachusetts Institute of Technology, 1945; M.S., Ibid., 1947.
- Mr. James A. Simmons, Graduate Assistant in Agronomy, July 1, 1949. B.S., Rhode Island State College, 1949.
- Mr. Howard R. Shackleton, Instructor in Physics, July 1, 1949. B.S., Rhode Island State College, 1948.
- Dr. Harold C. Harrison, Associate Professor of Chemistry, July 1, 1949. B.S., Washington and Lee, 1931; Ph.D., Cornell University, 1938.
- Dr. Irving A. Spaulding, Assistant Professor of Sociology and Specialist in Rural Sociology, July 1, 1949. B.S., Iowa State College, 1941; M.S., University of Kentucky, 1942; Ph.D., Cornell University, 1944.
- Mr. Robert V. Gardner, Assistant Professor of Sociology, July 1, 1949. B.A., Northwestern State College, 1942; M.A., State University of Iowa, 1944.
- Mr. Richard S. Hill, Research Assistant in Physics, July 1, 1949. B.A., Harvard University, 1947; M.S., Rhode Island State College, 1949.
- Mr. Eugene J. Palmer, Assistant Agricultural Economist (half-time), July 1, 1949. B.S., Rhode Island State College, 1949.
- Mr. Benjamin Nimer, Instructor in History and Political Science, July 1, 1949. B.A., University of Chicago, 1949.
- Dr. Vance J. Yates, Assistant Research Professor of Animal Pathology, July 1, 1949. B.S., Ohio State University, 1940; D.V.M., Ibid., 1949.
- Mr. William F. Lomasney, Extension Specialist in Marketing, Agricultural Extension Service, July 1, 1949. B.S., Rhode Island State College, 1949.

- Mr. Frank G. Wiener, Instructor in Economics, July 1, 1949. B.S., Rutgers University, 1942; M.S., Columbia University, 1948.
- Mr. William R. Ferrante, Junior Instructor in Mathematics, July 1, 1949. B.S. (Electrical Engineering), Rhode Island State College, 1949.
- Col. Leroy C. Wilson, Professor of Military Science and Tactics, July 15, 1949. B.S., U. S. Military Academy, 1918.
- Miss Dorothy E. Fry, Junior Assistant in Animal Pathology, July 16, 1949. B.A., Pembroke College, 1932.
- Mr. Robinson Hindle, Jr., Graduate Assistant in Horticulture, August 8, 1949. B.S., Rhode Island State College, 1949.
- Capt. Milton P. Champlin, Jr., Assistant Professor of Military Science and Tactics, August, 1949.
- Miss Doris C. Martin, Social Director and Assistant to Dean of Women, September 1, 1949. B.A., University of Massachusetts, 1947.
- Mrs. Florence E. Plaisted, House Director, September 1, 1949.
- Mr. Robert G. Cook, Graduate Assistant in Industrial Management, September 1, 1949. B.S., Rhode Island State College, 1949.
- Mr. Frederick T. Hancock, Jr., Graduate Assistant in Chemistry, September 1, 1949. B.S., Rhode Island State College, 1942.
- Mr. James T. Sherpey, Graduate Assistant in Physics, September 1, 1949. B.S., Harwick College, 1949.
- Miss Bernice C. Anderson, Graduate Assistant in Botany, September 1, 1949. B.S., Rhode Island State College, 1949.
- Miss Betty A. Dexter, Secretary to the Controller, September 1, 1949. B.S.S., Bryant College, 1949.
- Miss Annis H. Hittinger, Supervisor in Dining Units, September 1, 1949. B.S., University of Massachusetts, 1947.
- Mr. Edward F. O'Neill, Jr., Graduate Assistant in Bacteriology, September 1, 1949. B.S., Providence College, 1948.
- Mr. Paul S. Rohe, Instructor in English, September 1, 1949. A.B., University of Denver, 1948; M.A., Northwestern University, 1949.
- Mr. Herbert T. DeRigo, Graduate Assistant in Agronomy, September 1, 1949. B.S., West Virginia University, 1946.
- Mr. Samuel E. Blanchard, III, Graduate Assistant in Chemistry, September 1, 1949. B.S., University of New Hampshire, 1949.
- Mr. Franklin Talbot, Associate Librarian, September 1, 1949. A.B., University of Maine, 1946; M.S., Columbia University Library School, 1949.
- Mr. Robert W. Roske, Graduate Assistant in Physics, September 1, 1949. B.S., Rhode Island State College, 1948.
- Mr. Harold J. Stransky, Graduate Assistant in Chemical Engineering, September 1, 1949. B.S., Rhode Island State College, 1949.
- Mr. Alphonse L. Brissette, Graduate Assistant in Chemistry, September 1, 1949. B.S., Rhode Island State College, 1948.
- Mr. Jack W. Caddick, Assistant Professor and Assistant Research Professor of Horticulture, September 1, 1949. B.S., Cornell University, 1939; M.S., Ibid., 1946.
- Dr. Martin J. O'Brien, Associate College Physician in the Department of Health (part-time), September 1, 1949. B.S., Rhode Island State College, 1928; M.D., Harvard University, 1934.
- Mr. Justin E. Abrams, Graduate Assistant in Poultry Husbandry, September 1, 1949. B.S., Rhode Island State College, 1949.
- Mrs. Charles A. Weissert, Assistant to the Dean of Women and House Director, North Annex, September 10, 1949. Western State Teachers College (Mich.).
- Mr. Eugene Bell, Graduate Assistant in Zoology, September 16, 1949. A.B., New York University, 1948.
- Mr. Jack C. Crandall, Instructor in History and Political Science (part-time), September 16, 1949. B.S., Rhode Island State College, 1948; M.A., Emory University, 1949.

- Dr. Grace B. Slocum, Assistant Professor of English, September 16, 1949. A.B., Oberlin College, 1927; M.A., Western Reserve University, 1933; Ph.D., Ibid., 1937.
- Mrs. Ethel D. Underwood, House Mother, Beta Phi Fraternity, September 16, 1949.
- Miss Isabella Patricia Grant, Associate 4-H Agent, September 16, 1949. B.S., Rhode Island State College, 1949.
- Mr. Gilbert E. Enser, Extension Lecturer in Chemical Engineering, September 19, 1949. B.S. (Ch.E.), Northeastern University, 1937.
- Mr. Richard A. Lydecker, Extension Lecturer in Insurance, September 26, 1949. A.B., Princeton University, 1938.
- Mr. William P. McNamara, Extension Lecturer in Marketing and Advertising, September 28, 1949.
- Mr. Richard B. Fletcher, Extension Lecturer in Insurance, October 3, 1949. A.B., Brown University, 1943.
- Mrs. Susan M. Dietz, Extension Lecturer in Home Economics, October 5, 1949.
- Miss Jane M. Mullady, Assistant Home Economist in Agricultural Experiment Station, October 15, 1949. B.S., Marywood College, 1942; M.S., Ohio State University, 1948.
- Mr. Robert H. Ryan, Extension Lecturer in Workers' Education, October 19, 1949. A.B., Harvard University, 1941; M.B.A., Harvard Business School, 1949.
- Mr. Oscar J. Rathier, Extension Lecturer in Workers' Education, November 1, 1949.
- Mrs. Samuel Lincoln, House Director, November 1, 1949.
- Mr. Albert C. Martin, Extension Lecturer in Chemical Engineering, November 15, 1949. B.S., Rhode Island State College, 1940.
- Mr. Mac J. Prince, Research Assistant in Physics, December 16, 1949. B.S. (E.E.), Worcester Polytechnic Institute, 1949.
- Mr. Robert M. Beverage, Assistant in Agricultural Chemistry, January 1, 1950. B.S., University of Maine, 1943.
- Mr. David M. Adams, Secretary of College Development, January 1, 1950. University of Brussels, Belgium, 1935-36.
- Mrs. Mary D. Hartung, Instructor in Zoology, January 1, 1950. A.B., Radcliffe, 1943; M.S., University of Vermont, 1948.
- Dr. Theodor O. Diener, Assistant Plant Pathologist, January 16, 1950. B.S., Eidgenossische Technische Hochschule, Zurich, 1946; Ph.D., Ibid., 1948.
- Mr. Donald E. Wells, Editor, Agricultural Experiment Station, February 1, 1950. B.S., University of Wisconsin, 1949; M.S., Ibid., 1950.
- Mr. Conrad R. Skogley, Graduate Assistant in Agronomy, February 1, 1950. B.S., Rhode Island State College, 1950.
- Mr. William C. Birtwell, Extension Lecturer in Electrical Engineering (Television), February 1, 1950. B.S., Rhode Island State College, 1941.
- Miss Freda Fineberg, Junior Assistant in Agricultural Economics, Agricultural Experiment Station, February 1, 1950.
- Mr. Garold Sharpe, Instructor in English, February 1, 1950. B.A., Kent University, 1947; M.A., Columbia University, 1948.
- Mr. John A. Graham, Extension Lecturer in Finance, February 15, 1950. Ph.B., Providence College, 1927.
- Mr. Harold W. Kopp, Associate Professor of Physical Education and Head Coach of Football, March 1, 1950. B.S., Western Maryland College, 1933.
- Mr. Roy Y. Ward, Extension Lecturer in Chemical Engineering, March 7, 1950.
- Mr. Orville Curtis, Junior Assistant in Animal and Dairy Husbandry, May 1, 1950.
- Miss Muriel E. Dame, Associate 4-H Agent in Agricultural Extension Service, June 13, 1950. B. S., Rhode Island State College, 1950.

Resignations and Appointments Terminated

- Miss Shirley B. Elliott, Associate Librarian, August 15, 1949.
- Mrs. Jane Kenyon Clair, Secretary to the Controller, August 31, 1949.
- Mrs. Eleanor B. Lingard, Assistant to the Dean of Women, September 15, 1949.
- Dr. Lee C. Wilson, Associate Professor of English, September 15, 1949.

- Mrs. Mary-Garnett Tillinghast Smith, Graduate Assistant in Zoology, September 15, 1949.
- Mr. Alastair Currie, Research Assistant in Chemistry, September 15, 1949.
- Mr. Harold J. Northup, Research Assistant in Chemistry, September 15, 1949.
- Miss Ruth E. Rogers, Assistant to the Director and Editor of the Agricultural Experiment Station, October 15, 1949.
- Dr. John B. Rowell, Assistant Research Professor of Plant Pathology, November 30, 1949.
- Dr. Lillian D. Bloom, Assistant Professor of English, January 31, 1950.
- Mr. Francis B. Muller, Graduate Assistant in Agronomy, January 31, 1950.
- Mr. Justin Abrams, Graduate Assistant in Poultry Husbandry, February 15, 1950.
- Mrs. C. Champlin Starr, Secretary to the Director of the Extension Service, March 15, 1950.
- Mrs. Mildred A. McBroome, 4-H Club Agent, May 26, 1950.
- Mr. George Litchfield, Acting Director of Undergraduate Activities, June 15, 1950.
- Mr. William T. Bryant, Instructor in Physics, June 30, 1950.
- Mr. Jordan D. Fiore, Instructor in English, June 30, 1950.
- Mr. Jerome Gilbert, Instructor in Marketing, June 30, 1950.
- Mr. Melvin Lindner, Instructor in Aeronautical Engineering, June 30, 1950.
- Mr. Thomas F. Moschetto, Assistant Professor of Chemical Engineering, June 30, 1950.
- Mr. Herbert Allbritten, Assistant Agronomist and Extension Agronomist, June 30, 1950.
- Mr. William R. Ferrante, Junior Instructor in Mathematics, June 30, 1950.
- Mr. Eric Marder, Instructor in Physics, June 30, 1950.
- Mr. Henry Anderson, Instructor in Industrial Management, June 30, 1950.
- Miss Lillian B. Hudon, Assistant Professor of Home Economics and Director of Dining Services, June 30, 1950.
- Mr. Stuart C. Roberts, Field Representative in Division of General College Extension, June 30, 1950.
- Mr. Jack C. Crandall, Instructor in History and Political Science (part-time), June 30, 1950.
- Mrs. Mary D. Hartung, Instructor in Zoology, June 30, 1950.
- Miss Constance L. Child, Junior Assistant in Textiles and Clothing, June 30, 1950.
- Miss Marilyn W. Upham, Junior Assistant in Child Development and Family Relations, June 30, 1950.
- Miss Freda Fineberg, Junior Assistant in Agricultural Economics, June 30, 1950.
- Mr. Forrest L. Van Hooser, Junior Assistant in Animal and Dairy Husbandry, June 30, 1950.
- Dr. Theodor Diener, Assistant Plant Pathologist, June 30, 1950.
- Miss Doris Martin, Social Director and Assistant to the Dean of Women, June 30, 1950.
- Miss Jane Mullady, Assistant Home Economist in Agricultural Experiment Station, June 30, 1950.
- Mrs. Barbara O'Brien Hill, Instructor in Physical Education for Women, June 30, 1950.
- Miss Ella J. Polinsky, Instructor in Industrial Management, June 30, 1950.
- Mr. Robert G. Cook, Graduate Assistant in Industrial Management, June 30, 1950.
- Mr. William Nelson, Graduate Assistant in Chemistry, June 30, 1950.
- Mr. Lester J. King, Graduate Assistant in Chemical Engineering, June 30, 1950.
- Mr. Robert W. Roske, Graduate Assistant in Physics, June 30, 1950.
- Miss Bernice Anderson, Graduate Assistant in Botany, June 30, 1950.
- Mr. Frederick T. Hancock, Jr. Graduate Assistant in Chemistry, June 30, 1950.
- Mr. Edward F. O'Neill, Jr., Graduate Assistant in Bacteriology, June 30, 1950.
- Mr. Frank J. DeLuise, Graduate Assistant in Engineering Experiment Station, June 30, 1950.
- Mrs. Nancy Carpenter French, Assistant Professor of Physical Education for Women, June 30, 1950.
- Miss Eleanor L. Robinson, Director of the Nursery School and Instructor in Child Development and Family Relations, June 30, 1950.

Deceased

- Miss Mabel Dickson, Professor of Business Administration, November 15, 1949.

Retirement

Mr. Joseph W. Ince, Professor of Chemistry, June 30, 1950.

Mrs. Bernice M. Russell, Assistant to the Dean of Women and House Director of Davis Hall, June 30, 1950.

Leaves of Absence

Miss Grace Burwash, Associate Professor of Textiles and Clothing, July 1, 1949.

Mr. Chester A. Berry, Director of Student Activities, July 1, 1949.

Mr. Robert A. DeWolf, Associate Professor of Zoology, January 1, 1950.

Miss Edith Andrews, Professor of Foods and Nutrition, February 1, 1950.

Dr. Frank L. Howard, Professor of Plant Pathology, February 1, 1950.

Promotions and Other Changes in Title

Mr. Harold E. Gulvin, from Instructor and Extension Specialist in Agricultural Engineering to Assistant Professor of Mechanized Agriculture and Extension Specialist in Agricultural Engineering, July 1, 1949.

Mr. Albert L. Owens, from Assistant Agricultural Economist to Assistant Research Professor of Agricultural Economics, July 1, 1949.

Mr. Robert C. Haire, from Instructor to Assistant Professor of Physical Education for Men, July 1, 1949.

Miss Dorothy M. Massey, from Instructor to Assistant Professor of Physical Education for Women, July 1, 1949.

Dr. Lillian D. Bloom, from Instructor to Assistant Professor of English, July 1, 1949.

Dr. Richard D. Wood, from Instructor to Assistant Professor of Botany, July 1, 1949.

Dr. Donald J. Zinn, from Instructor to Assistant Professor of Zoology, July 1, 1949.

Mr. George W. Lees, from Instructor to Assistant Professor of Accounting, July 1, 1949.

Mr. Thomas F. Moschetto, from Instructor to Assistant Professor of Chemical Engineering, July 1, 1949.

Mr. Robert S. Haas, from Junior Instructor to Instructor in Electrical Engineering, July 1, 1949.

Mr. Alphonse R. Famiglietti, from Instructor to Assistant Professor of Mechanical Engineering, July 1, 1949.

Mr. Leslie R. Stone, from Instructor to Assistant Professor of Physics, July 1, 1949.

Miss Marion L. Fry, from Instructor to Assistant Professor of Clothing and Textiles, July 1, 1949.

Miss Mary-Jane Bacon, from Instructor to Assistant Professor of Foods and Nutrition, July 1, 1949.

Miss Helen H. Johnson, from Instructor to Assistant Professor of Child Development and Family Relations, July 1, 1949.

Mr. Howard R. Shackleton, from Graduate Assistant in Physics to Instructor in Physics, July 1, 1949.

Mrs. Jane Skogley, from Senior Clerk Typist to Recorder, July 1, 1949.

Miss Grace Hilda Smith, from Instructor in Home Economics to Research Assistant in Home Economics, July 1, 1949.

Mrs. Helen Carpenter, from Professor's Helper to Junior Instructor in Sociology (part-time), July 1, 1949.

Mr. Walter E. Larmie, from Extension Specialist in Marketing in Agricultural Extension Service to Instructor in Horticulture, July 1, 1949.

Mr. Frederick D. Tootell, from Professor of Physical Education to Professor of Physical Education and Assistant Director of Athletics, January 18, 1950.

Mr. John R. Hackett, from Assistant Director of General College Extension to Director of General College Extension, February 1, 1950.

Mr. Eugene J. Palmer, from Assistant Agricultural Economist (half-time) to Assistant Agricultural Economist, February 1, 1950.

Miss Mary Whaley, from Senior Clerk-Stenographer to Secretary to the Director of Extension Service, March 16, 1950.

Miss Margaret E. DeWees, from Assistant Dean of Women and Director of Women's Dormitories to Director of Housing, May 15, 1950.

List of Publications

AGRICULTURAL EXPERIMENT STATION:

- DeFrance, J. A. and Simmons, J. A. Crabgrass Control with PMAS on Colonial Bent Putting-Green Turf and on Seeding Turf in Lawns. *Proc. NE Weed Control Conf.* 231-238. January, 1950.
- Delaplane, J. P. Cultivation of the Chronic Respiratory Disease Virus in Chick Embryos. *Proc. U. S. Livestock San. Assoc.* 193-201. 1949.
- Feldman, A. W., Caroselli, N. E. and Howard, F. L. Physiology of Toxin Production by *Ceratostomella Ulmi*. *Phytopathology*. 40. 341-354. April, 1950.
- Gilbert, R. W. and Olney C. E. *Inspection of Feeds*. January, 1950.
- Gilbert, R. W. and Winiarczyk, E. R. *Inspection of Feeds and Fertilizers*. July, 1949.
- Kerr, T. W., Jr. Insecticides for Control of Certain Insects Attacking Ornamental Trees and Shrubs. *Jour. of Econ. Ent.* 43:1. 63-65. February, 1950.
- Kuschke, B. M. and Smith, G. H. Rhode Island Farmhouses. *Agr. Exp. Sta. Bul.* 307. May, 1950.
- Muller, F. B. and Odland, T. E. Control of Weeds in Corn with 2-4,D. *Proc. NE Weed Control Conf.* 210-216. January, 1950.
- Muller, F. B. and Odland, T. E. Pre-Emergence Weed Control in Corn with Cyanamid. *Proc. NE Weed Control Conf.* 198-204. January, 1950.
- Schlenker, F. S. and Simmons, B. K. The Absorption, Distribution and Excretion of Sulfaquinoxaline in Poultry. *Amer. Jour. Vet. Res.* 11:40. 291-295. July, 1950.
- Smith, J. B. Report on Magnesium and Manganese in Fertilizers. *Jour. Assn. Off. Agr. Chemists* 33. 284-287. 1950.

AGRICULTURAL EXTENSION SERVICE:

- Barratt, J. G., Jr. and Christopher, E. P. Peach Pest Control. *Ext. Mim. Circ.* 62. January, 1950.
- Dunwoody, C. B. and Doverspike, G. E. Rhode Island Markets for Woodland Products. *Ext. Bul.* 127. March, 1950.
- Higgins, T. C. and Gulvin, H. E. Summer Laying Shelter. *Ext. Bul.* 129. May, 1950.
- Kneeland, C. J. Compost for the Garden. *Ext. Mim. Circ.* 68. November, 1949.
- Kneeland, C. J. Vegetable Varieties for the Rhode Island Grower. *Ext. Mim. Circ.* 69. January, 1950.
- Larmie, W. E. Automatic Watering of Pot Plants and Window Boxes. *Ext. Mim. Circ.* 71. June, 1950.
- Lomasney, W. F. Quality Control of Sweet Corn. *Ext. Mim. Circ.* 70. May, 1950.

SCHOOL OF ARTS AND SCIENCES:

- Bloom, L. D. and Bloom, E. A. Addison's "Enquiry After Truth." *P.M.L.A.* 198-220. March, 1950.
- Carpenter, P. L. and Stuart, C. A. Relationships of *Proshigella* to Other Members of the Enterobacteriaceae. *Jour. of Immunology*. 64. 237-244. 1950.
- Palmatier, E. A., Cheadle, V. I. and Wright, T. J. A Survey of Rhode Island's Salt and Brackish Water Ponds and Marshes. *Pittman-Robertson Pamphlet No. 2*, R. I. Dept. Agr. and Cons. 1-44. 1950.
- Parks, W. G., Erhardt, J. G. and Roberts, D. S. The Catalytic Degradation and Oxidation of Cellulose. *Proc. Amer. Textile Chemists and Colorists, Amer. Dyestuff Reporter*. May, 1950.
- Reynolds, P. E. A Review of a Talk on Yeats by Richard Elman. *C. E. A. Critic*. March, 1950.
- Simmons, W. L. Reading and Discovery. *Eleusis of Chi Omega*. 51. 365-367. 1949.
- Smith, W. D. D. The Third Type of Aside in Shakespeare. *Modern Language Notes*. LXIV 510-513. 1949.
- Smith, W. D. D. Artful Brevity in Shakespeare's Monologs. *The Shakespeare Assn. Bul.* XXIV. 1-5. 1949.

Smith, W. D. D. New Light on Stage Directions in Shakespeare. *Studies in Philology*, XLVII. 1-5. 1950.

Spaulding, I. A., Halpern, Else P. and Halpern, Edmund P. *Bristow Rogers: American Negro*. Hermitage Press, New York, 1949.

SCHOOL OF ENGINEERING:

Bender, H. A. *College Algebra*. Pittman Publishing Corporation, New York, 1950.

Pease, E. M. J. *Intermediate Algebra*. Prentice-Hall, Inc., New York, 1950.

Schock, E. I. "A Study of the Attachment of Wire Stays to Wooden Spars in Yachts or Commercial Vessels." *Eng. Exp. Sta. Bul.* 2. September, 1949.

SCHOOL OF HOME ECONOMICS:

Kuschke, B. M. Consumer Preferences for Floor Products. *Soap and Sanitary Chemicals*. June, 1950.

Cockrell, D. Preparation for Teaching Child Development and Family Relations in Secondary Schools. *What's New in Home Economics*. March, 1950.

Financial Report

I submit herewith the annual financial report of Rhode Island State College for the fiscal year ended June 30, 1950, consisting of the following:

Balance Sheet, June 30, 1950.....	Exhibit A
Summary of Revenue, Expenditures and Encumbrances, and Unencumbered Balances for the Year Ended June 30, 1950	Exhibit B
Summary of Income from Students	Schedule B-1
Summary of Income from Federal Grants.....	Schedule B-2
Statement of Funds Allotted, Expenditures and Encum- brances, and Unencumbered Balances.....	Schedule B-3
Auditor's Certificate	

The results of operations of Rhode Island State College for the year ended June 30, 1950, are reflected in the accompanying Exhibit B and related schedules. The College ended its fiscal year with an excess of available funds over expenditures and encumbrances of \$184,105.62. This excess, with the exception of \$995.10, is either legally restricted in use during 1950-1951 or has already been reappropriated or allotted for specific expenditure during the coming fiscal year. The purposes for which the excess of \$184,105.62 is to be used during 1950-1951 is as follows:

General Funds:

General purposes—unallotted	\$ 995.10	
Allotted to the 1950-1951 budget	29,390.26	
Appropriated for Board of Trustees scholarships.....	7,500.00	
Reappropriation of unexpended departmental balances not provided in the 1950-51 budget.....	81,734.46	
Reappropriated for the liquidation of college requisitions unfilled at June 30, 1950.....	20,804.83	
	<hr/>	\$ 140,424.65

Restricted Funds:

State appropriation:

Construction of water system.....	\$ 4,181.62
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Federal programs:

Military activity	982.61
Housing	9,485.39
Agricultural experiment station.....	24,647.58
Agricultural extension service	4,383.77

43,680.97

Total\$ 184,105.62

Inventories of auxiliary enterprises were physically taken as of June 30, 1950 and priced at current realizable values.

STANLEY S. GAIRLOCH,
Controller and Treasurer

BALANCE SHEET, JUNE 30, 1950

ASSETS

CURRENT FUNDS:

	<i>Total</i>	<i>General</i>	<i>Restricted</i>
Cash on deposit with State Treasurer.....\$	258,380.49	\$ 208,529.26	\$ 49,851.23
Imprest cash fund.....\$	3,000.00	\$ 3,000.00	
Accounts receivable	240,834.99	\$ 225,399.71	\$ 15,435.28
Auxiliary enterprises:			
Book store:			
Cash	46,966.08	\$ 46,966.08	
Accounts receivable	6,296.57	6,296.57	
Inventory	27,531.01	27,531.01	
Dining units inventory	17,784.41	17,784.41	
Total	\$ 98,578.07	\$ 98,578.07	
Maintenance materials and supplies in-			
ventories	\$ 38,831.89	\$ 38,831.89	
Other current restricted funds:			
Cash	18,681.31		\$ 18,681.31
Investments (Schedule A-1).....	2,318.50		2,318.50
Total	\$ 20,999.81		\$ 20,999.81
Total current funds	\$ 660,625.25	\$ 574,338.93	\$ 86,286.32

SCHOLARSHIP AND LOAN FUNDS:

Cash	\$ 6,293.23	\$ 6,293.23
Notes receivable	4,852.41	4,852.41
Investments (Schedule A-1).....	868.50	868.50
Total	\$ 12,014.14	\$ 12,014.14

PLANT FUNDS:

Property (No provision for depreciation):		
Land and buildings.....\$	5,742,531.81	\$ 5,742,531.81
Improvements	145,471.52	145,471.52
Equipment	993,544.62	993,544.62
Temporary housing facilities.....	272,498.09	272,498.09
Construction in progress	1,000,000.00	1,000,000.00
Total property	\$ 8,154,046.04	\$ 8,154,046.04
Deferred interest—Bond issue.....	126,000.00	126,000.00
Total	\$ 8,280,046.04	\$ 8,280,046.04

AGENCY FUNDS:

Cash	\$ 84,611.91	\$ 84,611.91
Investments (Schedule A-1).....	1,266.25	1,266.25
Total	\$ 85,878.16	\$ 85,878.16

TRUST FUND:

Cash	\$ 120,465.93		\$ 120,465.93
Uncollected pledges	10,115.62		10,115.62
Investments (Schedule A-1).....	1,137.00		1,137.00
Total	\$ 131,718.55		\$ 131,718.55
TOTAL ALL FUNDS.....	\$ 9,170,282.14	\$ 8,854,384.97	\$ 315,897.17

NOTE: At June 30, 1950, the Board of Trustees of State Colleges was contingently liable for \$39,800 as guarantor of notes of seven college fraternities.

Exhibit A

BALANCE SHEET, JUNE 30, 1950
LIABILITIES

CURRENT FUNDS:

	<i>Total</i>	<i>General</i>	<i>Restricted</i>
Payables:			
Vouchers	\$ 2,985.36	\$ 2,985.36	
Outstanding purchase orders.....	48,114.51	41,944.25	\$ 6,170.26
Auxiliary enterprises	945.12	945.12	
Total	\$ 52,044.99	\$ 45,874.73	\$ 6,170.26

RESERVES:

Fees collected in advance.....	\$ 23,175.00	\$ 23,175.00	
Petty cash fund and unrealized revenue from accts. rec.....	243,834.99	228,399.71	\$ 15,435.28
Auxiliary enterprises	97,632.95	97,632.95	
Maintenance inventories	38,831.89	38,831.89	
Other current restricted funds (Schedule A-2)	20,999.81		20,999.81
Total	\$ 424,474.64	\$ 388,039.55	\$ 36,435.09

**REAPPROPRIATION AND BUDGETED
BALANCES TO BE EXPENDED IN
1950-51:**

General purposes	\$ 995.10	\$ 995.10	
Reappropriations	143,611.17	139,429.55	\$ 4,181.62
Federal programs	39,499.35		39,499.35
Total (Exhibit B)	\$ 184,105.62	\$ 140,424.65	\$ 43,680.97
Total current funds.....	\$ 660,625.25	\$ 574,338.93	\$ 86,286.32

SCHOLARSHIPS AND LOAN FUNDS:

Scholarship funds (Schedule A-3).....	\$ 2,794.21		\$ 2,794.21
Loan funds (Schedule A-4).....	9,219.93		9,219.93
Total	\$ 12,014.14		\$ 12,014.14

PLANT FUNDS:

Reimbursement due General Treasurer, State of Rhode Island, for bonds is- sued under "The 1947 Rhode Island State College Dormitory Act".....	\$ 1,299,632.50	\$ 1,299,632.50	
Investment in plant facilities.....	6,980,413.54	6,980,413.54	
Total	\$ 8,280,046.04	\$ 8,280,046.04	

AGENCY FUNDS:

Research & Fellowship (Schedule A-5).....	\$ 38,404.44		\$ 38,404.44
Student organizations (Schedule A-6).....	11,198.43		11,198.43
Student activities (Schedule A-7).....	22,199.37		22,199.37
Fraternity accounts (Schedule A-8).....	14,075.92		14,075.92
Total	\$ 85,878.16		\$ 85,878.16

TRUST FUND:

Reserve for uncollected pledges.....	\$ 10,115.62		\$ 10,115.62
Reserve for fund campaign	4,451.44		4,451.44
Memorial building fund (Schedule A-9)....	117,151.49		117,151.49
Total	\$ 131,718.55		\$ 131,718.55
TOTAL ALL FUNDS.....	\$ 9,170,282.14	\$ 8,854,384.97	\$ 315,897.17

SUMMARY OF REVENUE, EXPENDITURES AND ENCUMBRANCES, AND UNENCUMBERED BALANCES

REVENUE:

State appropriation for general uses.....		\$ 1,001,900.00
College earnings:		
Income from students (Schedule B-1).....	\$ 843,784.44	
Departmental sales and services.....	121,678.06	
Dining services	439,199.30	
		<u>1,404,661.80</u>
Federal programs:		
Grants (Schedule B-2).....	\$ 288,698.84	
Experiment station earnings.....	34,077.95	
Military—Student fees	1,298.80	
Housing rentals	22,253.73	
		<u>346,329.32</u>
Reimbursements and recoveries:		
Veterans' Administration—Books	\$ 37,266.47	
Bookstore salaries	14,050.06	
Other reimbursements and recoveries.....	19,959.49	
		<u>71,276.02</u>
Total revenue		<u>\$ 2,824,167.14</u>

ADD:

Prior year unexpended balances reappropriated for 1949-1950 expenditure	\$ 111,813.68	
Prior year encumbrances lapsed and reencumbered for 1949- 1950 expenditure	50,412.48	
		<u>162,226.16</u>
Total available funds		<u>\$ 2,986,393.30</u>

DEDUCT:

Expenditures and encumbrances (Schedule B-3).....	2,802,287.68	
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UNENCUMBERED BALANCES AVAILABLE FOR 1950-1951

EXPENDITURE	<u>\$ 184,105.62</u>
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Schedule B-1**SUMMARY OF INCOME FROM STUDENTS**

Tuition	\$ 230,161.97	
Fees	434,282.03	
Dormitory rentals	101,732.87	
General College Extension.....	29,447.98	
Summer School tuition and fees.....	38,200.83	
Other charges and fees.....	9,958.76	
	<hr/>	
Total		\$ 843,784.44

Schedule B-2**SUMMARY OF INCOME FROM FEDERAL GRANTS****FOR INSTRUCTIONAL USES:**

Morrill Act of 1890.....	\$ 50,000.00	
Bankhead-Jones Act	28,141.40	
Income from Land Grant Fund of 1862.....	1,807.12	
George Dean Act	4,350.00	
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		\$ 84,298.52

FOR AGRICULTURAL EXPERIMENT STATION:

Hatch Act of 1887.....	\$ 15,000.00	
Adams Act of 1916.....	15,000.00	
Purnell Act of 1923.....	60,000.00	
Bankhead-Jones Act	2,859.15	
Research and Marketing Act of 1946.....	45,043.08	
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		137,902.23

FOR AGRICULTURAL EXTENSION SERVICE:

Capper-Ketcham Act of 1928.....	\$ 20,522.28	
Smith-Lever and Bankhead-Jones Acts.....	38,927.63	
Bankhead-Flanagan Act	6,629.43	
Research and Marketing Act of 1946.....	418.75	
	<hr/>	
		66,498.09
		<hr/>
Total		\$ 288,698.84

Schedule B-3

STATEMENT OF EXPENDITURES AND ENCUMBRANCES

	<i>Total Expenditures and Encumbrances</i>
ADMINISTRATION:	
Office of the president	\$ 18,099.41
Office of the vice-president	14,533.70
Dean of women	24,623.95
Dean of men	13,783.47
Dean of administration and registrar	26,515.57
Office of admissions	10,205.82
Office of the controller	43,481.62
Purchasing and housing office	4,850.49
Public relations office	11,165.65
Alumni and placement office	18,865.48
Board of Trustees	592.86
Student activities	6,866.47
General administration	6,964.08
Total	<u>\$ 200,548.57</u>
DIVISION OF GRADUATE STUDY:	
Graduate study	<u>\$ 1,012.81</u>
SCHOOL OF AGRICULTURE:	
Dean of agriculture	\$ 11,667.38
Agricultural economics	3,737.19
Horticulture and packing house	35,448.52
Agronomy	7,232.16
Agricultural chemistry	2,307.82
Sociology	14,646.66
Animal and dairy husbandry	71,541.43
Poultry husbandry	10,088.94
Herd testing	3,330.05
Feeds and fertilizers	8,306.52
Forestry	2,845.30
Agricultural—mechanized	4,673.35
Total	<u>\$ 175,825.32</u>
SCHOOL OF HOME ECONOMICS:	
Home economics	<u>\$ 91,917.56</u>
DIVISION OF NURSING:	
Nursing	<u>\$ 6,140.57</u>
SCHOOL OF BUSINESS ADMINISTRATION:	
Business administration	<u>\$ 114,517.24</u>
SCHOOL OF ENGINEERING:	
Dean of engineering	\$ 10,757.15
Mechanical engineering	64,650.48
Electrical engineering	28,814.98
Civil engineering	28,116.80
Chemical engineering	21,814.30
Mathematics	37,458.55
Physics	35,980.96
Engineering experiment station	14,126.25
Engineering repair shop	6,216.66
Total	<u>\$ 247,936.13</u>

	<i>Total Expenditures and Encumbrances</i>
SCHOOL OF ARTS AND SCIENCES:	
Philosophy	\$ 6,420.90
Bacteriology	16,036.48
Botany	25,314.86
Chemistry	66,002.86
Education and psychology.....	24,037.00
English	64,302.99
History and political science.....	28,680.41
Modern languages	25,667.43
Zoology	30,296.76
Geology and geography.....	5,174.96
Music	15,020.33
Military—R.O.T.C.	2,502.82
Physical education for men	59,233.94
Physical education for women	12,707.36
Research (science)	2,399.11
Marine biology	19,827.95
Total	\$ 403,626.16

MISCELLANEOUS:

Library	\$ 52,810.28
Buildings and grounds.....	467,461.26
Davis Hall dormitory.....	82.80
Eleanor Roosevelt Hall dormitory.....	254.19
East Hall dormitory.....	92.65
A.M.C. Upper Air Research Project.....	17,878.99
Student health	16,880.13
Summer school	37,598.26
General college extension.....	60,415.25
Veterans' program	63,129.09
Bookstore—salary account	14,050.06
Egg laying contest.....	7,772.92
Memorial building campaign	3,218.62
Prior year encumbrances.....	28,062.46
Total	\$ 769,706.96

DINING SERVICES:

Dining units	\$ 384,753.88
Soda fountain	26,069.77
Prior year encumbrances	3,754.05
Total	\$ 414,577.70

ALLOTMENTS IN EXCESS OF AVAILABLE CURRENT FUNDS.....

Total college operations.....	\$ 2,425,809.02
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RESTRICTED STATE APPROPRIATIONS:

Water system	\$ 11,816.15
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*Total
Expenditures
and
Encumbrances*

FEDERAL HOUSING AND MILITARY PROGRAMS:

Military activity	\$ 1,420.03
R. E. Smith dormitory.....	—22,972.20
Fort Kearney housing units.....	24,814.85
Quonset huts	27,682.37
Total	<u>\$ 30,944.55</u>

AGRICULTURAL EXPERIMENT STATION:

Hatch Act Fund.....	\$ 16,960.98
Adams Act Fund.....	15,017.99
Purnell Act Fund.....	60,567.05
Bankhead-Jones Act Fund.....	2,889.94
Experiment Station earnings.....	31,971.25
Research and Marketing Act.....	42,399.88
State Offset Fund.....	47,671.52
Total	<u>\$ 217,478.61</u>

AGRICULTURAL EXTENSION SERVICE:

Smith-Lever and Bankhead-Jones Acts Fund.....	\$ 38,460.76
Capper-Ketcham Act Fund.....	20,522.29
Bankhead-Flanagan Act Fund.....	6,629.43
Research and Marketing Act.....	1,860.56
State Offset Fund.....	48,766.31
Total	<u>\$ 116,239.35</u>

TOTAL FUNDS ALLOTTED, EXPENDITURES, ENCUM- BRANCES, AND UNENCUMBERED BALANCES.....	<u>\$ 2,802,287.68</u>
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ACCOUNTANTS' CERTIFICATE

E. L. O'BRIEN & COMPANY

Certified Public Accountants

New Industrial Trust Building, Providence

Board of Trustees of State Colleges,
State of Rhode Island and Providence Plantations:

We have examined the balance sheet of the Rhode Island State College as of June 30, 1950 (Exhibit A and supporting Schedules A-1 to A-9) and the summary of revenue, expenditures and encumbrances, and unencumbered balances (Exhibit B and supporting Schedules B-1 to B-3) for the fiscal year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly, included such tests of the accounting records and other auditing procedures as we considered necessary in the circumstances.

In our opinion, based upon such examination, the accompanying balance sheet, supporting schedules, and related summary of revenue, expenditures and encumbrances, and unencumbered balances present fairly the financial position of Rhode Island State College at June 30, 1950, and the results of its operations for the year then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

/sgd/ E. L. O'BRIEN & COMPANY,

Certified Public Accountants

Providence

September 8, 1950